

Source Code of Jamella's Diablo 2 Editor 2001-03-17

This source code is my intellectual property. It was completely written by myself. I have published it so fellow programmers and other interested people can have a look into the internals of my editor.

If you use parts of the code consider that I needed over half a year to build this program and mention me in your info box if you like.

Other than that you will find some modifications I made after releasing version 3.0 of the editor, so don't be surprised if you find some extra functions and useless pieces of code.

And please don't email me and ask me how the code works, because it does and I don't have time to teach the whole world object-orientated C++.

Now dig into it by first reading the header file.

Jamella

<http://jamella.cjb.net>

[mailto: jamella@gmx.net](mailto:jamella@gmx.net)

```

// D2E.h Diablo 2 Editor Header File

/*
 * Central Configurations for all Projects
 */

#define PUB                0
#define DEV                1
#define DEVPUB            2

#define RELEASE            DEV
#define RELEASECODE        "PIPER"

#define JEPRELOADITEMIMAGES 0

#if RELEASE == PUB

#define JEVERSION          "Version 3.0"
#define BUGGYMESSAGES     1

#elif RELEASE == DEVPUB

#define JEVERSION          "Public Development Version"
#define BUGGYMESSAGES     1

#else

#define VERSION            "Development Version"
#define BUGGYMESSAGES     0

#endif

#if _DEBUG
#define SHOWMAGICCODE     1
#else
#define SHOWMAGICCODE     0
#endif

#if defined(JAMELLAEDITOR)

#define PROGRAMNAME        "Jamella's Diablo 2 Hero Editor"

#define _WIN32_IE          0x0500
#define IDT_TIMER          12345

#include <windows.h>
#include <stdio.h>
#include <string.h>
#include <stdarg.h>
#include <shlobj.h>
#include <richedit.h>

// Resource Identifiers
#include "ResourceIDs.h"

#else if defined(JAMELLACOMSERVER)

#define PROGRAMNAME        "Jamella's COM Object"
#define COMPROGID          "Jamella.Server"
#define COMVERID           "Jamella.Server.3"
#define COMDESCRIPTION     "Jamella Diablo 2 COM Server"

// Includes
#include <windows.h>
#include <ole2.h>
#include <commctrl.h>
#include <stdio.h>
#include <shlobj.h>

// Resource Identifiers
#include "ResourceIDs.h"

#endif

#define REGISTRYKEY        "Software\\Jamella's Diablo 2 Editor"
#define D2SPROGID          "JamellaD2Editor.Character"
#define D2IPROGID          "JamellaD2Editor.Item"
#define D2SDESCRIPTION     "Diablo II Character"
#define D2IDESCRPTION     "Diablo II Item"

```

```

#define PERMANENTURL          "http://jamella.cjb.net"
#define EMAIL                 "jamella@gmx.net"
#define HTMLHELPPFILE        "JamellaHelp.chm"
#define CLIPBOARDFORMAT      "JamellaD2EItem30"
#define WM_VALIDATE          WM_USER
#define SEARCHPOLLER         250
#define EXPERTBOXPOLLER      500
#define DECODETIMEOUT        1000000
#define PROGRESSCOLOR        RGB(200,0,0)
#define HISTORYSTEPS         32
#define MAXMODLEVEL          99
#define BFASPEEDPAST         10
#define JEINVGRIDS           1

// Windowing Data
extern HINSTANCE             hInstance;
extern HWND                 hMainDialog,hTabDialog;

// Structures
struct Damage
{
    int     Hands;
    int     OneHandMin,OneHandMax;
    int     TwoHandMin,TwoHandMax;
    bool    Magic;
};

struct ArmorClass
{
    int     BaseAC;
    int     AC;
    bool    Magic;
};

// MainDlg.cpp
struct maindlgtab
{
    int     iddialog;
    int     idicon;
    char*   text;
    void*   proc;
    DLGTEMPLATE* dialogtemplate;
    int     imagelistindex;
};

// ToolTips
extern HWND hToolTip;
extern HWND CreateToolTipCtrl(HWND hParent,int ToolSet,bool Relay);

// TextSummary
extern void WriteTextSummary(HWND);

// General Resources
extern HBITMAP hBmpPlus;
extern HICON hIconHelp;
extern HMENU hBatchMenu;
extern void D2ELoadResources();
extern void D2EUnLoadResources();

// Tab0.cpp
extern HBITMAP hBmpJamella;

// Tab1.cpp
extern const char* CharClasses[5];
extern const char* Difficulties[4];

// Item Editor Commons
extern class Item* SelItem;
extern struct ItemInfo* SelInfo;

// Tab2.cpp
extern HBITMAP hBmpBodyWhole,hBmpNotPlaceable;
extern HCURSOR hCurMove,hCurMoveCopy,hCurCross,hCurNo;
extern HIMAGELIST hTVImagelist;
extern HBRUSH hBrushBlack,hBrushNull;
extern HPEN hPenWhite,hPenGreen,hPenBusy,hPenUnwearable;
extern void UpdateTab2();

```

```

// Tab2E.cpp
extern HWND hExpertBox;
extern void UpdateTab2E();

// Tab2Random.cpp
extern HWND hRandomBox;
extern int RandomBoxDW;
extern void UpdateTab2Rnd();

// Tab2ItemList.cpp
extern HWND hItemListBox;
extern void UpdateTab2ItemList();

// Tab2Rare.cpp
extern HCURSOR hCurAdd;

// Tab2ItemFileLoadSave
extern bool LoadItemFile(HWND hWnd);
extern bool SaveItemFile(HWND hWnd);
extern Item *MakeItemFromData(BYTE* data, int size);
extern Item *MakeItemFromFile(HANDLE hFile);

// Tab3.cpp
struct skill
{
    int    ifoffset;
    char   *name;
    int    idstring;
    int    idbitmap;
    HBITMAP hbitmap;
};
extern struct skill skills[5*30];

// Tab4.cpp
struct queststatus
{
    char   *text;
    WORD   value;
};
struct quest
{
    int    idstring;
    int    idbitmap;
    queststatus*stati;
    int    offset;
    HANDLE hbitmap;
    char   string[64];
};
extern struct quest quests[21];

// Tab5.cpp
extern HBITMAP hBmpWaypointOn;
extern HBITMAP hBmpWaypointOff;

// Infobox.cpp
extern HBITMAP hBmpWebLink;
extern void RTFStreamSend(HWND hWnd,int Ctrl,const char *Stream);

// Item Grid Managment Sizes
struct InvGrids
{
    int    xInventory,yInventory;
    int    xStash,yStash;
    int    xCube,yCube;
    int    xBelt,yBelt;
};

extern struct InvGrids InvGrids;
extern void SetInvGridPreset(int i);

// Items Structure
struct ItemInfo
{
    char*   ItemName;
    char    Quality;
    char*   BaseItemName;
    char*   ItemType;
    DWORD   ItemCode;
    int     UniqueCode;
};

```

```

int     DWBCode;
char    ItemSearch;
DWORD  IC;
bool    Sm;
int     BitmapID;
int     TreeID;
int     MagicMask;
int     RareMask;
int     QualityMask;
int     SizeX,SizeY;
int     BodyPlace;
char    Magic;
int     Durability;
DWORD  MinStr;
DWORD  MinDex;
DWORD  MinLvl;
int     Hands;
int     OneHandDmgMin;
int     OneHandDmgMax;
int     TwoHandDmgMin;
int     TwoHandDmgMax;
int     MissileDmgMin;
int     MissileDmgMax;
int     UndeadBonus;
int     ACMin;
int     ACMax;
int     Sockets;
char    GemClass;
int     Quantity;
char*   Description;

// Zero initialized
HBITMAP hBmp;
HTREEITEM hTree;
};
extern struct ItemInfo      ItemInfos[];
extern int                  nItemInfos;
extern struct ItemInfo      itemunknown;

extern struct ItemInfo*     SelInfo;

// Effect Structure
struct Effect
{
    DWORD      Code;
    int        Min;
    int        Max;
};

// Ring and Amulet Structures
struct ImageMap
{
    int        BmpID;
    HBITMAP    hBmp;
};
extern struct ImageMap      RingImages[];
extern struct ImageMap      AmuletImages[];

// Item Tree Structures
struct _ItemTree
{
    int        Depth;
    char*      Text;
    int        TreeID;
    HTREEITEM  hTree;
};
extern struct _ItemTree     ItemTree[];
extern int                  nItemTree;

// Magic Modifiers Tables
struct _MagicPreSuffix
{
    int        N;
    char*      *Text;
    int        ModLevel;
    int        ELevel;
    int        Group;
    int        nMod;
    Effect     Mod[4];
};

```

```

    int    MagicMask;
    int    Transform;
    int    Transformcolor;
    char*  Description;
};
extern struct _MagicPreSuffix  MagicPrefixTable[],MagicSuffixTable[];
extern int    nMagicPrefixTable,nMagicSuffixTable;

struct Modifier
{
    DWORD   Code;
    char    *Text;
};
extern const struct Modifier  Modifiers[];
extern int    nModifiers;

// Superior Items Table
struct _SuperiorItem
{
    int     X;
    int     nMods;
    Effect  Mod[2];
    int     SuperiorMask;
    int     Level;
    int     Multiply;
    int     Add;
};
extern const struct _SuperiorItem  SuperiorItemTable[];
extern int    nSuperiorItemTable;

// Magical Items PreSuffix Tree
struct _MagicPreSuffixTree
{
    int     Depth;
    char*   Text;
    int     ModID;
    HTREEITEM hTree;
};
extern struct _MagicPreSuffixTree  MagicPreSuffixTree[];
extern int    nMagicPreSuffixTree;

// Rare Item PreSuffix Table
struct _RarePreSuffix
{
    char*   Text;
    int     RareMask;
};
extern const struct _RarePreSuffix  RarePrefixTable[],RareSuffixTable[];
extern int    nRarePrefixTable,nRareSuffixTable;

// Unique Item Attributes Table
struct _UniqueItem
{
    char*   Name;
    int     nMod;
    Effect  Mod[7];
};
extern const struct _UniqueItem    UniqueItems[];
extern int    nUniqueItems;

// Set Item Attributes Table
struct _SetItem
{
    char*   SetName;
    int     SetID;
    char*   Prefix;
    int     Level;
    int     nItems;
    int     nProperties;
    int     Transform;
    int     Transformcolor;
    struct
    {
        DWORD   Code;
        DWORD   IC;
        char*   Suffix;
    }
    Item[6];
};

```

```

    Effect Mod[16];
};
extern const struct _SetItem      SetItems[];
extern int                       nSetItems;

struct GemInfo
{
    char      *Name;
    DWORD     ItemCode;
    DWORD     IC;
    int       Transform;
    int       nMods;

    Effect    WeaponMod[3];
    Effect    HelmMod[3];
    Effect    ShieldMod[3];
};
extern const struct GemInfo      GemInfos[];
extern int                       nGemInfos;

// Popup Help Structure
struct PopupHelp
{
    int         CtrlID;
    int         HelpID;
    const char* HelpText;
};
extern const struct PopupHelp    PopupHelps[];
extern int                       nPopupHelps;

// Main.cpp
int MainDialog(const char* CmdLine);
int ErrorMessage();

// HelpBox.cpp
bool ToggleHelpBox(HWND hWnd,int HELPID);
void CloseHelpBox();

// CommandLine.cpp
extern void      ParseCommandLine();
extern const char *CmdLineFile();
extern const char *ProgramFilePath();

// Registry.cpp
struct _RegOptions
{
    int      CreateItemRecordFormat;
    int      AllItemsSocketable;
    int      A7Gems;
    int      ExceedQuantity;
    char     ItemPath[260];
    int      Associations;
    int      ToolTips;
    int      NoAnnoyingMsgs;
};
extern void      CheckShellRegistry();
extern void      SaveEditorRegistryValues();
extern void      LoadEditorRegistryValues();
extern _RegOptions  RegOptions;

LRESULT CALLBACK Tab0DialogProc(HWND hWnd,UINT uMsg,WPARAM wParam,LPARAM lParam);
LRESULT CALLBACK Tab1DialogProc(HWND hWnd,UINT uMsg,WPARAM wParam,LPARAM lParam);
LRESULT CALLBACK Tab2DialogProc(HWND hWnd,UINT uMsg,WPARAM wParam,LPARAM lParam);
LRESULT CALLBACK Tab2InventoryProc(HWND hWnd,UINT uMsg,WPARAM wParam,LPARAM lParam);
LRESULT CALLBACK Tab2EDialogProc(HWND hWnd,UINT uMsg,WPARAM wParam,LPARAM lParam);
LRESULT CALLBACK Tab2RndDialogProc(HWND hWnd,UINT uMsg,WPARAM wParam,LPARAM lParam);
LRESULT CALLBACK Tab2MagicDialogProc(HWND hWnd,UINT uMsg,WPARAM wParam,LPARAM lParam);
LRESULT CALLBACK Tab2RareDialogProc(HWND hWnd,UINT uMsg,WPARAM wParam,LPARAM lParam);
LRESULT CALLBACK Tab2SearchDialogProc(HWND hWnd,UINT uMsg,WPARAM wParam,LPARAM lParam);
LRESULT CALLBACK Tab2GemsDialogProc(HWND hWnd,UINT uMsg,WPARAM wParam,LPARAM lParam);
LRESULT CALLBACK Tab3DialogProc(HWND hWnd,UINT uMsg,WPARAM wParam,LPARAM lParam);
LRESULT CALLBACK Tab4DialogProc(HWND hWnd,UINT uMsg,WPARAM wParam,LPARAM lParam);
LRESULT CALLBACK Tab5DialogProc(HWND hWnd,UINT uMsg,WPARAM wParam,LPARAM lParam);
LRESULT CALLBACK CowLevelDialogProc(HWND hWnd,UINT uMsg,WPARAM wParam,LPARAM lParam);
LRESULT CALLBACK InfoDialogProc(HWND hWnd,UINT uMsg,WPARAM wParam,LPARAM lParam);
LRESULT CALLBACK SaveDialogProc(HWND hWnd,UINT uMsg,WPARAM wParam,LPARAM lParam);
LRESULT CALLBACK NewDialogProc(HWND hWnd,UINT uMsg,WPARAM wParam,LPARAM lParam);
LRESULT CALLBACK RenameDialogProc(HWND hWnd,UINT uMsg,WPARAM wParam,LPARAM lParam);
LRESULT CALLBACK UOptionsDialogProc(HWND hWnd,UINT uMsg,WPARAM wParam,LPARAM lParam);

```

```

LRESULT CALLBACK EOptionsDialogProc(HWND hWnd,UINT uMsg,WPARAM wParam,LPARAM lParam);
LRESULT CALLBACK Tab2ItemListDialogProc(HWND hWnd,UINT uMsg,WPARAM wParam,LPARAM lParam);
#if INVGRIDS > 0
LRESULT CALLBACK Tab2ExGridDialogProc(HWND hWnd,UINT uMsg,WPARAM wParam,LPARAM lParam);
#endif

```

```
#pragma pack(1)
```

```

class fileclass
{
private:
    char    filename[260];

    // Private Structures
    struct
    {
        BYTE    W4[4];            // '01 77 34 00'
        BYTE    unknown[48];
    } w4;
    struct
    {
        BYTE    JM[2];            // 'JM'
        WORD    num;              // number of items
    } JMinv;

public:
    fileclass();
    ~fileclass();

    bool    loaded;

    // File operations
    void    clear();
    bool    loadfile(HWND hWnd,const char *filename);
    bool    savefile(HWND hWnd);
    bool    reloadfile(HWND hWnd);
    bool    discardfile(HWND hWnd);
    inline bool isloaded()        { return loaded; }

    int    transferdata(BYTE *data,int size);
    void    setfilename(const char *file);

    // Public Structures
    struct
    {
        BYTE    signatur[8];      // '55 AA 55 AA 47 00 00 00'
        char    playername[16];
        BYTE    hardcore;
        BYTE    diff;
        WORD    unknown1[4];      // '00 00 DD 00 10 00 82 00'
        WORD    playerclass;
        WORD    level;
        BYTE    unknown2[50];
        BYTE    startingtown;
        BYTE    unknown3[41];
    } Header;
    struct
    {
        BYTE    Woo[8];           // '57 6F 6F 21 06 00 00 00'
        WORD    unknown1;         // '2A 01'
        WORD    quests1[48];
        WORD    quests2[48];
        WORD    quests3[48];
    } Woo;
    struct
    {
        BYTE    WS[8];            // '57 53 01 00 00 00 50 00'
        WORD    unknown1;         // '02 01'
        DWORD    waypoints1;
        BYTE    unused1[18];
        WORD    unknown2;         // '02 01'
        DWORD    waypoints2;
        BYTE    unused2[18];
        WORD    unknown3;         // '02 01'
        DWORD    waypoints3;
        BYTE    unused3[18];
    } WS;
    struct

```



```

{
    BYTE    gf[2];           // 'gf'
    WORD    fields;         // Bit Field:  '7 6 5 4:3 2 1 0|7 6 5 4:3 2 1 0'
    BYTE    null1;         // Fields:    5 4           F E
    DWORD   strength;      // 0
    DWORD   energy;        // 1
    DWORD   dexterity;     // 2
    DWORD   vitality;      // 3
    DWORD   statsbonus;    // 4
    DWORD   skillbonus;    // 5
    DWORD   health;        // 6
    DWORD   healthmax;     // 7
    DWORD   mana;          // 8
    DWORD   manamax;       // 9
    DWORD   stamina;       // A
    DWORD   staminamax;    // B
    DWORD   level;         // C
    DWORD   experience;    // D
    DWORD   goldperson;    // E
    DWORD   goldstash;     // F
} gf;
struct
{
    BYTE    _if[2];        // 'if'
    BYTE    skills[30];
} IF;

struct JMitem*  JMinvitems;
int             JMinvnum;

};

enum { CNT_NONE, CNT_INVENTORY, CNT_BODY, CNT_STASH, CNT_CUBE, CNT_BELT, CNT_SOCKET, CNT_COPYBUFFER };

enum { CRUDEITEM=0x02,
    USUALITEM=0x04,
    SUPERIORITEM=0x06,
    MAGICITEM=0x08,
    SETITEM=0x0A,
    RAREITEM=0x0C,
    UNIQUEITEM=0x0E };

enum {
    DE_NONE=0,

    DE_MAGIC_PREFIX_MODULO_ZERO,
    DE_MAGIC_PREFIX_MODIFIER_VALMISSING,
    DE_MAGIC_SUFFIX_MODULO_ZERO,
    DE_MAGIC_SUFFIX_MODIFIER_VALMISSING,

    DE_RARE_NAMEPREFIX_MODULO_ZERO,
    DE_RARE_NAMESUFFIX_MODULO_ZERO,
    DE_RARE_PRESUFFIX_MODULO_ZERO,
    DE_RARE_PRESUFFIX_NOPOSSIBLE,
    DE_RARE_PRESUFFIX_MODIFIER_VALMISSING,

    DE_UNIQUE_ITEMCODE,
    DE_SET_ITEMCODE,
};
const char* DecodeErrorString(int Error);

#define PREFIX 0
#define SUFFIX 1

class MagicDecoder
{
public:
    bool        Quick;
    Item*       I;

    // Item magic decoding data is buffered for maximum speed
    DWORD       ItemBuffered;
    DWORD       RareItemCodeBuffered;
    int         ItemBufferedModLevel;

    // Magical Attributes Buffering

    int         nPrefixBuffer,nSuffixBuffer;
    _MagicPreSuffix

```

```

        **PrefixBuffer,**SuffixBuffer;
void      BuildMagicBuffers();

// Rare Name Attributes Buffering
int       nRarePrefixBuffer,nRareSuffixBuffer;
const _RarePreSuffix
        **RarePrefixBuffer,**RareSuffixBuffer;
void      BuildRareBuffers();

BYTE      ZeroMemoryStart;

// Pointers to Magical Attributes with Magnitude

// Crude Item Prefix
const char* CrudePrefix;

// Magical Items
int       modMagicPrefix,modMagicSuffix;
int       modpickMagicPrefix,modpickMagicSuffix;
_RarePreSuffix *MagicPrefix,*MagicSuffix;
int       MagicPrefixMag[4];
int       MagicSuffixMag[4];

// Rare Items
const _RarePreSuffix
        *RarePrefix,*RareSuffix;

// Set & Unique Items
int       nRareFix;
bool      tRareFix[6];
_RarePreSuffix
        *RareFix[6];
int       RareFixMag[6][4];

const _UniqueItem
        *UniqueItem;
const _SetItem
        *SetItem;
int       SetItemNum;
int       UniqueSetMag[16];

BYTE      ZeroMemoryEnd;

// Decoding Procs
void      DecodeCrude();
void      DecodeMagical();
void      DecodeRare();
void      DecodeUnique();
void      DecodeSet();

void      CollectModifiers();

static char NameTmp[256];
static char AttrTmp[2048];

public:
    MagicDecoder(Item *I);
    ~MagicDecoder();

    int     DecodeError;
    bool    Decode();
    bool    QuickDecode();

    // Collected Modifiers for public
    int     nMods;
    struct
    {
        DWORD   Code;
        int     Mag;
    }
    Mod[32];

    const char* Name();
    const char* RichAttributes();
};

class DWHistory
{
private:

```

```

int      ML[HISTORYSTEPS];
DWORD   DWA[HISTORYSTEPS];
DWORD   DWB[HISTORYSTEPS];

int      Top,Bottom,Ptr;
public:
DWHistory();
~DWHistory();

bool     isNext();
bool     isBack();

void     StepBack(Item *I);
void     StepNext(Item *I);
void     StepAdd(Item *I);
};

// Item Record IDs
#define IT_BASE      0x0000
#define IT_103      0x1030
#define IT_103EAR   0x1031
#define IT_104EX    0x1040
#define IT_104SM    0x1041
#define IT_104EAR   0x1042

// Base Class
class Item
{
protected:
    // Chained list pointers
    Item*     ListNext;
    Item*     ListPrev;

public:
    // States
    bool      Busy;

    // Constructor & Destructor
    Item();
    virtual   ~Item();

    // Chained List Functions
    inline Item* Next()
        { return ListNext; }
    inline Item* Prev()
        { return ListPrev; }

    int      Count();
    Item*    GetOrdinal(int i);
    void     Attach(Item *i);
    void     Delete();

    // The following virtual functions are filled in derived classes
    // with the appropriate functions. Here only the most basic properties
    // are defined.

    // Item Data Loading and Saving virtual
    virtual bool LoadItemRecord(BYTE *data);
    virtual BYTE* GetItemRecord();
    virtual DWORD ItemRecordLength();
    virtual void BlankItem();
    virtual int ItemRecordID() { return IT_BASE; }
    virtual const char* ItemRecordName() { return "Base Class"; }

    // Coordinates & Size virtuals
    virtual int Container() const;
    virtual int xPos() const; // logical 0-9
    virtual int yPos() const; // logical 0-9
    int      xPixelPos() const;
    int      yPixelPos() const;
    virtual int xSize(); // logical 1-4
    virtual int ySize(); // logical 1-4
    int      xPixelSize();
    int      yPixelSize();
    bool     isInRegion(int x,int y);

    virtual bool SetCoordinates(int Container,int xPos,int yPos);

    virtual int BodyCode();

```

```

int          BodyPlace();

// ItemInfo handling and creation
ItemInfo*   Info;
virtual bool FindInfo();
virtual HBITMAP GetBitmap();

// Virtual Simple Item Properties
virtual DWORD ItemCode();
virtual void  SetItemCode(DWORD x);
virtual int   UniqueCode();
virtual void  SetUniqueCode(int x);

virtual int   Quality();
virtual void  SetQuality(int x);
virtual int   Quantity();
virtual void  SetQuantity(int i);

virtual int   Durability();
virtual void  SetDurability(int x);
virtual int   DurabilityMax();
virtual void  SetDurabilityMax(int x);

virtual DWORD DWA();
virtual void  SetDWA(DWORD x);
virtual DWORD DWB();
virtual void  SetDWB(DWORD x);
DWORD        DWARandomOffset(int x);
DWORD        DWBRandomOffset(int x);

virtual int   MagicLevel();
virtual void  SetMagicLevel(int x);

virtual int   GemNum();
virtual void  SetGemNum(int i);

// Virtual Item Property Flags
virtual bool  Socketed();
virtual void  SetSocketed(bool i);
bool         Socketable();
virtual bool  Identified();
virtual void  SetIdentified(bool i);
virtual bool  Starter();
virtual void  SetStarter(bool i);

// Gemmed Items
Item*        Gems;           // Chained List of Socketed Gems
const GemInfo* GInfo;       // Info about Gem if this is one
virtual bool  FindGemInfo();

// Ear-specific Properties
virtual int   OpponentClass();
virtual void  SetOpponentClass(int x);
virtual const char* OpponentClassString();

virtual int   OpponentLevel();
virtual void  SetOpponentLevel(int x);

virtual const char* OpponentName();
virtual void  SetOpponentName(const char *s);

// Virtual Computed Item Properties
virtual int   BaseDefense();
virtual ArmorClass Defense();

virtual Damage WeaponDamage();

virtual unsigned int RequiredStrength();
virtual unsigned int RequiredDexterity();
virtual unsigned int RequiredELevel();

virtual bool   isWearable();

bool          Decoded;
virtual bool   Decode();
class MagicDecoder *MD;

virtual const char* Name();
virtual const char* RichText();

```

```

    DWHistory      DWBHistory;

protected:
    static char    NameTmp[256];
    static char    RichTextTmp[2048];
    void          StartRTF(char *s);
};

class ItemMg : public Item
{
public:
    // Computed Item Properties
    virtual int BaseDefense();
    virtual ArmorClass Defense();

    virtual Damage WeaponDamage();

    virtual unsigned int RequiredStrength();
    virtual unsigned int RequiredDexterity();
    virtual unsigned int RequiredELevel();

    virtual bool Decode();

    virtual const char* Name();
    virtual const char* RichText();
};

// Item Structure from 1.03
class Item103 : public ItemMg
{
private:
    struct _JMItem
    {
        BYTE    JM[2];           // 'JM'
        WORD    bitfield1;      // contains socket and identification flags
        WORD    bitfield2;      // contains starting item flag
        BYTE    bitfield3;      // contains gem info
        BYTE    modlevel;
        WORD    itemcode;
        WORD    quantity;
        BYTE    quantityex;
        WORD    durability;
        BYTE    coordinates;
        BYTE    specialitemcode;
        DWORD   properties1;
        DWORD   properties2;
        WORD    container;
    } Data;
public:
    Item103();
    ~Item103();

    // Item Data Loading and Saving virtual
    bool    LoadItemRecord(BYTE *data);
    BYTE*   GetItemRecord();
    DWORD   ItemRecordLength();
    void    BlankItem();
    int     ItemRecordID()      { return IT_103; }
    const char* ItemRecordName() { return "v1.03 Record"; }

    // Coordinates & Size
    int     Container() const;
    int     xPos() const;      // logical 0-9
    int     yPos() const;      // logical 0-9
    int     xSize();           // logical 1-4
    int     ySize();           // logical 1-4
    int     BodyCode();

    bool    SetCoordinates(int Container,int xPos,int yPos);

    // Iteminfo functions
    bool    FindInfo();
    HBITMAP GetBitmap();

    // Item Properties
    DWORD   ItemCode();
    void    SetItemCode(DWORD x);
    int     UniqueCode();

```

```

void        SetUniqueCode(int x);

int         Quality();
void        SetQuality(int x);
int         Quantity();
void        SetQuantity(int i);

int         GemNum();
void        SetGemNum(int i);

int         Durability();
void        SetDurability(int x);
int         DurabilityMax();
void        SetDurabilityMax(int x);

// Image and Defence Specifier
DWORD      DWA();
void        SetDWA(DWORD x);

// Magical Double Word & Magic Mod Level
DWORD      DWB();
void        SetDWB(DWORD x);

int         MagicLevel();
void        SetMagicLevel(int x);

// Flags
bool        Socketed();
void        SetSocketed(bool i);
bool        Socketable();
bool        Identified();
void        SetIdentified(bool i);
bool        Starter();
void        SetStarter(bool i);

// Gem Functions
bool        FindGemInfo();
};

// Ear Item Structure from 1.03
class Item103Ear : public Item
{
private:
    struct _JMItemEar
    {
        BYTE    JM[2];
        WORD    bitfield1;
        WORD    bitfield2;
        WORD    itemcode;
        WORD    coordinates;
        BYTE    container;
        BYTE    string[16];
    } Data;
public:
    Item103Ear();
    ~Item103Ear();

    // Item Data Loading and Saving virtual
    bool        LoadItemRecord(BYTE *data);
    BYTE*       GetItemRecord();
    DWORD       ItemRecordLength();
    void        BlankItem();
    int         ItemRecordID()           { return IT_103EAR; }
    const char* ItemRecordName()        { return "v1.03 Ear Record"; }

    // Coordinates & Size
    int         Container() const;
    int         xPos() const;           // logical 0-9
    int         yPos() const;           // logical 0-9
    int         xSize();                 // logical 1-4
    int         ySize();                 // logical 1-4

    bool        SetCoordinates(int Container,int xPos,int yPos);

    // Iteminfo functions
    bool        FindInfo();
    HBITMAP     GetBitmap();

    // Item Properties

```

```

DWORD      ItemCode();
void       SetItemCode(DWORD x);

// Ear-specific Properties
int        OpponentClass();
void       SetOpponentClass(int x);
const char* OpponentClassString();

int        OpponentLevel();
void       SetOpponentLevel(int x);

char       OpponentNameChar(int n);
void       SetOpponentNameChar(int n,char c);

const char* OpponentName();
void       SetOpponentName(const char *s);

// Computed Properties
const char* Name();
const char* RichText();
};

class Item104Ex : public ItemMg
{
private:
    struct _JMItem
    {
        BYTE    JM[2];           // 'JM'
        WORD    bitfield1;
        WORD    bitfield2;     // contains starting item flag
        BYTE    bitfield3;
        DWORD   itemcode;
        BYTE    bodycode;
        WORD    magicrestr;
        WORD    quantity;
        BYTE    quantityex;
        WORD    durability;
        BYTE    coordinates;
        BYTE    uniquecode;
        DWORD   DWA;
        WORD    DWB;
        WORD    container;
    } Data;
public:
    Item104Ex();
    ~Item104Ex();

    // Item Data Loading and Saving virtual
    bool    LoadItemRecord(BYTE *data);
    BYTE*   GetItemRecord();
    DWORD   ItemRecordLength();
    void    BlankItem();
    int     ItemRecordID()      { return IT_104EX; }
    const char* ItemRecordName() { return "v1.04 Extended Record"; }

    // Coordinates & Size
    int     Container() const;
    int     xPos() const;      // logical 0-9
    int     yPos() const;     // logical 0-9
    int     xSize();          // logical 1-4
    int     ySize();          // logical 1-4
    int     BodyCode();

    bool    SetCoordinates(int Container,int xPos,int yPos);

    // Iteminfo functions
    bool    FindInfo();
    void    CreateItem(ItemInfo *info);
    HBITMAP GetBitmap();

    // Item Properties
    DWORD   ItemCode();
    void    SetItemCode(DWORD x);
    int     UniqueCode();
    void    SetUniqueCode(int x);

    int     Quality();
    void    SetQuality(int x);
    int     Quantity();

```

```

void      SetQuantity(int i);

int       GemNum();
void     SetGemNum(int i);

int       Durability();
void     SetDurability(int x);
int       DurabilityMax();
void     SetDurabilityMax(int x);

// Image and Defence Specifier
DWORD    DWA();
void     SetDWA(DWORD x);

// Magical Double Word & Magic Mod Level
DWORD    DWB();
void     SetDWB(DWORD x);

int       MagicLevel();
void     SetMagicLevel(int x);

// Flags
bool     Socketed();
void     SetSocketed(bool i);
bool     Socketable();
bool     Identified();
void     SetIdentified(bool i);
bool     Starter();
void     SetStarter(bool i);
};

class Item104Sm : public Item
{
private:
    struct _JMItem
    {
        BYTE    JM[2];           // 'JM'
        WORD    bitfield1;
        WORD    bitfield2;     // contains starting item flag
        WORD    bitfield3;
        WORD    coordinates;
        DWORD   itemcode;
        BYTE    zero;
    } Data;
public:
    Item104Sm();
    ~Item104Sm();

    // Item Data Loading and Saving virtual
    bool     LoadItemRecord(BYTE *data);
    BYTE*    GetItemRecord();
    DWORD    ItemRecordLength();
    void     BlankItem();
    int      ItemRecordID()      { return IT_104SM; }
    const char* ItemRecordName() { return "v1.04 Simple Record"; }

    // Coordinates & Size
    int      Container() const;
    int      xPos() const;     // logical 0-9
    int      yPos() const;     // logical 0-9
    int      xSize();          // logical 1-4
    int      ySize();          // logical 1-4

    bool     SetCoordinates(int Container,int xPos,int yPos);

    // Iteminfo functions
    bool     FindInfo();
    HBITMAP  GetBitmap();

    // Gem Functions
    bool     FindGemInfo();

    // Item Properties
    DWORD    ItemCode();
    void     SetItemCode(DWORD x);

    const char* RichText();
};

```



```

// Ear Item Structure from 1.04
class Item104Ear : public Item
{
private:
    struct _JMItemEar
    {
        BYTE    JM[2];
        WORD    bitfield1;
        WORD    bitfield2;
        WORD    itemcode;
        WORD    coordinates;
        BYTE    string[16];
    } Data;
public:
    Item104Ear();
    ~Item104Ear();

    // Item Data Loading and Saving virtual
    bool        LoadItemRecord(BYTE *data);
    BYTE*       GetItemRecord();
    DWORD       ItemRecordLength();
    void        BlankItem();
    int         ItemRecordID()           { return IT_104EAR; }
    const char* ItemRecordName()        { return "v1.04 Ear Record"; }

    // Coordinates & Size
    int         Container() const;
    int         xPos() const;           // logical 0-9
    int         yPos() const;           // logical 0-9
    int         xSize();                 // logical 1-4
    int         ySize();                 // logical 1-4

    bool        SetCoordinates(int Container,int xPos,int yPos);

    // Iteminfo functions
    bool        FindInfo();
    HBITMAP     GetBitmap();

    // Item Properties
    DWORD       ItemCode();
    void        SetItemCode(DWORD x);

    // Ear-specific Properties
    int         OpponentClass();
    void        SetOpponentClass(int x);
    const char* OpponentClassString();

    int         OpponentLevel();
    void        SetOpponentLevel(int x);

    char        OpponentNameChar(int n);
    void        SetOpponentNameChar(int n,char c);

    const char* OpponentName();
    void        SetOpponentName(const char *s);

    // Computed Properties
    const char* Name();
    const char* RichText();
};

#pragma pack(4)

extern class fileclass fc;
extern class Item* Items;
extern class Item* CopyBuffer;

extern HBITMAP ItemInfoGetBitmap(ItemInfo *Info);
extern Item *CreateItem(Item **Ichain,ItemInfo *Info);

extern char buffer[256];

// D2Decode.cpp
struct RAND
{
    DWORD    Seed;
    DWORD    Carry;
};
inline DWORD Random(RAND *rnd)

```

```

{
    DWORDLONG x = rnd->Seed;
    x *= 0x6AC690C5;
    x += rnd->Carry;

    rnd->Seed = DWORD(x);
    rnd->Carry = DWORD(x >> 32);
    return rnd->Seed;
}
extern int      StartRandoms(Item *I,RAND *r);

#pragma pack(1)

#define TAB2COMMON    \
    bool    Running;    \
    DWORD   Counter;    \
    HANDLE  Thread;     \
    HGLOBAL ThreadData; \
    HWND    Dialog;     \
    Item*   Item;       \
    bool    Advanced;   \
    bool    TraverseMagicLevels; \
    bool    HitsSelection; \
    SearchHit* Hits;    \
    DWORD   Past[BFASPEEDPAST];

// Tab2 Search Threads
struct SearchHit
{
    int      MagicLevel;
    int      DWA;
    int      DWB;
    SearchHit* List;
};

struct SearchThread
{
    TAB2COMMON
};

struct MagicSearchThread
{
    TAB2COMMON

    bool    PrefixMatch;
    _MagicPreSuffix *Prefix;

    bool    SuffixMatch;
    _MagicPreSuffix *Suffix;

    bool    ForcePrefixMatch[4];
    int     ForcePrefixValue[4];

    bool    ForceSuffixMatch[1];
    int     ForceSuffixValue[1];
};

struct RareSearchThread
{
    TAB2COMMON

    int     NamePrefix,NameSuffix;

    _MagicPreSuffix *Attribute[6];
    int     iAttribute[6];
    int     tAttribute[6];
};

struct DefenseSearchThread
{
    TAB2COMMON

    int     SelectAC;
};

struct RingAmuletSearchThread
{
    TAB2COMMON
}

```

```

    bool    RingAmulet;    // Ring == false; Amulet == true;
    DWORD   Image;
};

#pragma pack(4)

// Macro Functions
inline void PollMessages()
{
    MSG msg;
    while(PeekMessage(&msg,(HWND) NULL,0,0,PM_REMOVE))
    {
        TranslateMessage(&msg);
        DispatchMessage(&msg);
    }
}
inline bool CheckPollMessages()
{
    MSG msg;
    while(PeekMessage(&msg,(HWND) NULL,0,0,PM_REMOVE))
    {
        if (msg.message == WM_QUIT)
            return true;

        TranslateMessage(&msg);
        DispatchMessage(&msg);
    }
    return false;
}

inline void ErrorBox(const char *error,HWND hWnd = hMainDialog)
{
    MessageBox(hWnd,error,PROGRAMNAME,MB_OK | MB_ICONHAND | MB_APPLMODAL);
}
#if DEVELOPMENT == 1
#define AssertBox(str) ErrorBox(str)
#else
#define AssertBox(str)
#endif

inline const PopupHelp* FindPopupHelp(int ID)
{
    for(int z=0;z<nPopupHelps;z++)
    {
        if (PopupHelps[z].CtrlID == ID)
            return &PopupHelps[z];
    }
    return 0;
}

// Info Macros
inline int FindItemInfoByItemCode(DWORD ItemCode)
{
    for(int z=0;z<nItemInfos;z++)
    {
        if (ItemInfos[z].ItemCode == ItemCode)
            return z;
    }
    return -1;
}

inline int FindMagicPreSuffixByPointer(bool PreSuff,const _MagicPreSuffix* p)
{
    if (PreSuff == PREFIX) {
        for(int z=0;z<nMagicPrefixTable;z++)
        {
            if (&MagicPrefixTable[z] == p)
                return z;
        }
        return -1;
    }
    else {
        for(int z=0;z<nMagicSuffixTable;z++)
        {
            if (&MagicSuffixTable[z] == p)
                return z | 256;
        }
        return -1;
    }
}

```

```

}
inline int FindRareNamePrefixByPointer(const _RarePreSuffix* p)
{
    for(int z=0;z<nRarePrefixTable;z++)
    {
        if (&RarePrefixTable[z] == p)
            return z;
    }
    return -1;
}
inline int FindRareNameSuffixByPointer(const _RarePreSuffix* p)
{
    for(int z=0;z<nRareSuffixTable;z++)
    {
        if (&RareSuffixTable[z] == p)
            return z;
    }
    return -1;
}

inline const char* GetEffect(DWORD code)
{
    if (code == 0) return "Zero String error";
    for(int z=0;z<nModifiers;z++)
    {
        if (Modifiers[z].Code == code && Modifiers[z].Text)
            return Modifiers[z].Text;
    }
    return "Unknown Effect";
}

extern char CodeStringTemp[5];
inline const char* CodeString(DWORD code)
{
    CodeStringTemp[0] = char((code & 0x000000FF) >> 0);
    CodeStringTemp[1] = char((code & 0x0000FF00) >> 8);
    CodeStringTemp[2] = char((code & 0x00FF0000) >> 16);
    CodeStringTemp[3] = char((code & 0xFF000000) >> 24);
    CodeStringTemp[4] = 0;
    return CodeStringTemp;
}

inline const char* CodeStringRev(DWORD code)
{
    CodeStringTemp[0] = char((code & 0xFF000000) >> 24);
    CodeStringTemp[1] = char((code & 0x00FF0000) >> 16);
    CodeStringTemp[2] = char((code & 0x0000FF00) >> 8);
    CodeStringTemp[3] = char((code & 0x000000FF) >> 0);
    CodeStringTemp[4] = 0;
    return CodeStringTemp;
}

// Diablo 2 Directory Key
inline bool GetDiabloSaveDirectory(char *dest)
{
    HKEY regkey;
    if (RegOpenKeyEx(HKEY_CURRENT_USER,"Software\\Blizzard Entertainment\\Diablo II",0,KEY_READ,&regkey) == ERROR_SUCCESS)
    {
        {
            DWORD type = REG_SZ;
            DWORD fdirsize = 260;
            DWORD x = RegQueryValueEx(regkey,"Save Path",0,&type,(unsigned char*)dest,&fdirsize);
            if (x != ERROR_SUCCESS)
                return false;
            RegCloseKey(regkey);
            return true;
        }
        return false;
    }
}

// strcat Multiple
inline void strmcat(char *d,...)
{
    va_list args;
    va_start(args,d);

    char *s;

    while( s = va_arg(args,char *) )
        strcat(d,s);
}

```

```
    va_end(args);
}

// ASCIItoRTF
inline void ASCIItoRTF(char *d,const char *s)
{
    while(*s)
    {
        if (*s == '\n') {
            *d++ = '\\\n';
            *d++ = 'p';
            *d++ = 'a';
            *d++ = 'r';
            *d++ = ' ';
            s++;
            if (*s == '\r') s++;
        }
        else
            *d++ = *s++;
    }
    *d = 0;
}

// Item Class Duplicator
inline Item *ItemDuplicate(Item *I)
{
    switch(I->ItemRecordID())
    {
        default:        return new Item;
        case IT_103:    return new Item103;
        case IT_103EAR: return new Item103Ear;
        case IT_104EX:  return new Item104Ex;
        case IT_104SM:  return new Item104Sm;
        case IT_104EAR: return new Item104Ear;
    }
}
}
```

```

// CommandLine.cpp

#include "JamellaD2E.h"

static char ProgramFilePathBuffer[260];
static char InitialLoadFileBuffer[260];

void ParseCommandLine()
{
    WCHAR *cl = GetCommandLineW();
    char BufferA[1024];

    WideCharToMultiByte(CP_ACP,0,cl,-1,BufferA,sizeof BufferA,NULL,NULL);

    char *s = BufferA;
    char *d = ProgramFilePathBuffer;
    int QuoteDepth = 0;
    int cln = 0;

    while(*s != 0)
    {
        if (*s == '"' && QuoteDepth <= 0)
        {
            QuoteDepth++;
            s++;
        }
        else if (*s == '"' && QuoteDepth > 0)
        {
            QuoteDepth--;
            s++;
        }
        else if (*s == ' ' && QuoteDepth <= 0)
        {
            if (d)
                *d = 0;

            cln++;

            if (cln == 1)
                d = InitialLoadFileBuffer;
            else
                d = 0;

            s++;
        }
        else
        {
            if (d)
                *d++ = *s++;
            else
                s++;
        }
    }
}

const char *CmdLineFile()
{
    if (InitialLoadFileBuffer[0]) {
        char *s = InitialLoadFileBuffer;

        while(*s != 0) {
            s++;
            if (toupper(*(s+0)) != '.') continue;
            if (toupper(*(s+1)) != 'D') continue;
            if (toupper(*(s+2)) != '2') continue;
            if (toupper(*(s+3)) != 'S') continue;
            return InitialLoadFileBuffer;
        }

        return 0;
    }
    else
        return 0;
}

const char *ProgramFilePath()
{
    return ProgramFilePathBuffer;
}

```

}

```
// CowLevel.cpp from D2E
#include "JamellaD2E.h"

LRESULT CALLBACK CowLevelDialogProc(HWND hWnd,UINT uMsg,WPARAM wParam,LPARAM lParam)
{
    switch(uMsg)
    {
        case WM_CREATE:
            return true;

        case WM_COMMAND:
            switch (LOWORD(wParam))
            {
                case IDOK:
                case IDCANCEL:
                    EndDialog(hWnd,wParam);
                    return true;
            }
            break;
        case WM_CLOSE:
            EndDialog(hWnd,wParam);
            return true;
        case WM_DESTROY:
            return false;
    }
    return false;
}
```



```

// CreateItem.cpp from D2E
// Contains the function that creates item from item info

#include "JamellaD2E.h"

int MaximumItemStructure()
{
    int m = -1;
    for(Item *I = Items; I != 0; I = I->Next())
        if (I->ItemRecordID() > m)
            m = I->ItemRecordID();
    return m;
}

Item* CreateItem(Item **IChain, ItemInfo *Info)
{
    Item *I = 0;

    int toCreate = IT_BASE;

    if (RegOptions.CreateItemRecordFormat == 1) // 1.03 Records
    {
        if (Info->IC != ' rae')
            toCreate = IT_103;
        else if (Info->IC == ' rae')
            toCreate = IT_103EAR;
    }
    else if (RegOptions.CreateItemRecordFormat == 2) // 1.04 Records
    {
        if (Info->IC != ' rae') {
            if (!Info->Sm)
                toCreate = IT_104EX;
            else
                toCreate = IT_104SM;
        }
        else if (Info->IC == ' rae')
            toCreate = IT_104EAR;
    }
    else // Auto-detect Record
    {
        int m = MaximumItemStructure();

        if (m < IT_104EX && Info->IC != ' rae')
            toCreate = IT_103;
        else if (m < IT_104EX && Info->IC == ' rae')
            toCreate = IT_103EAR;
        else if (m >= IT_104EX && Info->IC != ' rae') {
            if (!Info->Sm)
                toCreate = IT_104EX;
            else
                toCreate = IT_104SM;
        }
        else if (m >= IT_104EX && Info->IC == ' rae')
            toCreate = IT_104EAR;
    }

    switch(toCreate)
    {
    case IT_103:
        { // Create Item103

            I = new Item103;
            if (*IChain)
                (*IChain)->Attach(I);
            else
                *IChain = I;

            I->BlankItem();

            I->SetItemCode(Info->ItemCode);
            I->SetUniqueCode(Info->UniqueCode);
            I->SetIdentified(true);

            switch(Info->ItemSearch)
            {
            case 'N':    I->SetQuality(USUALITEM);           break;
            case 'M':    I->SetQuality(MAGICITEM);          break;
            case 'S':    I->SetQuality(SETITEM);            break;
            case 'U':    I->SetQuality(UNIQUEITEM);         break;
            }
        }
    }
}

```

```

    }

    I->SetDurabilityMax(Info->Durability);
    I->SetDurability(Info->Durability);
    I->SetQuantity(Info->Quantity);

    I->SetMagicLevel((rand() % 90) + 1);

    I->SetDWA(rand() + (rand() << 16));
    I->SetDWB(rand() + (rand() << 16));

    I->Info = Info;

    if (Info->DWBCode != 0 && I->Quality() == SETITEM)
    {
        for(int z=0;z<20000;z++)
        {
            RAND RDWB = { I->DWB(), 666 };
            StartRandoms(I,&RDWB);

            int offset = Random(&RDWB) % 0x10;
            if (( Info->DWBCode & (1 << offset) ) != 0) break;

            I->SetDWB(rand() + (rand() << 16));
        }
    }

    I->FindInfo();

} // Create Item103
break;
case IT_103EAR:
{ // Create Item103Ear

    I = new Item103Ear;

    if (*IChain)
        (*IChain)->Attach(I);
    else
        *IChain = I;

    I->BlankItem();

    I->SetItemCode(Info->ItemCode);
    I->SetOpponentName("SetNewName");

} // Create Item103Ear
break;
case IT_104EX:
{ // Create Item104Ex

    I = new Item104Ex;
    if (*IChain)
        (*IChain)->Attach(I);
    else
        *IChain = I;

    I->BlankItem();

    I->SetItemCode(Info->IC);
    I->SetUniqueCode(Info->UniqueCode);
    I->SetIdentified(true);

    switch(Info->ItemSearch)
    {
    case 'N':  I->SetQuality(USUALITEM);           break;
    case 'M':  I->SetQuality(MAGICITEM);         break;
    case 'S':  I->SetQuality(SETITEM);           break;
    case 'U':  I->SetQuality(UNIQUEITEM);       break;
    }

    I->SetDurabilityMax(Info->Durability);
    I->SetDurability(Info->Durability);
    I->SetQuantity(Info->Quantity);

    I->SetMagicLevel((rand() % 90) + 1);

    I->SetDWA(rand() + (rand() << 16));
    I->SetDWB(rand() + (rand() << 16));

```

```

I->Info = Info;

if (Info->DWBCode != 0 && I->Quality() == SETITEM)
{
    for(int z=0;z<20000;z++)
    {
        RAND RDWB = { I->DWB(), 666 };
        StartRandoms(I,&RDWB);

        int offset = Random(&RDWB) % 0x10;
        if (( Info->DWBCode & (1 << offset) ) != 0)
            break;

        I->SetDWB(rand() + (rand() << 16));
    }
}

I->FindInfo();

} // Create Item104Ex
break;
case IT_104SM:
{ // Create Item104Sm

    I = new Item104Sm;
    if (*IChain)
        (*IChain)->Attach(I);
    else
        *IChain = I;

    I->BlankItem();

    I->SetItemCode(Info->IC);

    I->FindInfo();

} // Create Item104Sm
break;
case IT_104EAR:
{ // Create Item104Ear

    I = new Item104Ear;

    if (*IChain)
        (*IChain)->Attach(I);
    else
        *IChain = I;

    I->BlankItem();
    I->SetOpponentName("SetNewName");

} // Create Item104Ear
break;
}

return I;
}

```

```
#include "JamellaD2E.h"

int StartRandoms(Item *I,RAND *r)
{
    if (!I->Info)
        if (!I->FindInfo())
            return 0;

    r->Seed = I->DWB();
    r->Carry = 666;

    int UsualAdd[6] = { 1000, 200, 125, 30, 12, 4 };
    int UsualDiv[6] = { 1, 1, 1, 16, 16, 8 };
    int ExcepAdd[6] = { 600, 120, 100, 3, 4, 1 };
    int ExcepDiv[6] = { 1, 1, 1, 100, 16, 8 };

    int *Add = (I->Info->Quality == 'E') ? ExcepAdd : UsualAdd;
    int *Div = (I->Info->Quality == 'E') ? ExcepDiv : UsualDiv;

    int rands = 0;
    for(int z=0;z<6;z++)
    {
        int modulo = Add[z] - (I->MagicLevel() / Div[z]);

        if (modulo <= 0) modulo = 1;

        rands++;
        if ((Random(r) % modulo) == 0) break;
    }
    return rands;
}
```

```
#include "JamellaD2E.h"

char buffer[256];

ItemInfo *SelInfo = 0;

const char* CharClasses[5] =
{ "Amazon", "Sorceress", "Necromancer", "Paladin", "Barbarian" };
const char* Difficulties[4] =
{ "Normal", "Nightmare", "Hell", "Hell done" };
```

```

// FileClass.cpp from D2E

#include "JamellaD2E.h"

class fileclass fc;

// Character Structs
const char Sign_Header[9]      = "\x55\xAA\x55\xAA\x47\x00\x00\x00";
const char Sign_Woo[9]        = "\x57\x6F\x6F\x21\x06\x00\x00\x00";
const char Sign_WS[9]         = "\x57\x53\x01\x00\x00\x00\x50\x00";
const char Sign_w4[5]         = "\x01\x77\x34\x00";
const char Sign_gf[3]         = "\x67\x66";
const char Sign_if[3]         = "\x69\x66";
const char Sign_JM[3]         = "\x4A\x4D";

BYTE*      rest;
int        restsize;

fileclass::fileclass()
{
    clear();
}
fileclass::~fileclass()
{
    clear();
}
void fileclass::clear()
{
    loaded = false;
    ZeroMemory(&Header, sizeof(Header));
    ZeroMemory(&Woo, sizeof(Woo));
    ZeroMemory(&WS, sizeof(WS));
    ZeroMemory(&w4, sizeof(w4));
    ZeroMemory(&gf, sizeof(gf));
    ZeroMemory(&IF, sizeof(IF));
    ZeroMemory(&JMinv, sizeof(JMinv));
    if (Items)
    {
        delete Items;
        Items = 0;
    }
    if (rest)
    {
        delete [restsize] rest;
        rest = 0;
        restsize = 0;
    }
}
int fileclass::transferdata(BYTE *data,int size)
{
    int JMn = 0;

    for(BYTE* a = data;a < data+size;)
    {
        char* Sign = (char *)a;

        if (strncmp(Sign,Sign_Header,sizeof Sign_Header-1) == 0)
        {
            memcpy(&Header,a,sizeof Header);
            a += sizeof Header;
        }
        else if (strncmp(Sign,Sign_Woo,sizeof Sign_Woo-1) == 0)
        {
            memcpy(&Woo,a,sizeof Woo);
            a += sizeof Woo;
        }
        else if (strncmp(Sign,Sign_WS,sizeof Sign_WS-1) == 0)
        {
            memcpy(&WS,a,sizeof WS);
            a += sizeof WS;
        }
        else if (strncmp(Sign,Sign_w4,sizeof Sign_w4-1) == 0)
        {
            memcpy(&w4,a,sizeof w4);
            a += sizeof w4;
        }
        else if (strncmp(Sign,Sign_gf,sizeof Sign_gf-1) == 0)
        {
            memset(&gf,0,sizeof gf);
        }
    }
}

```

```

memcpy(&gf,a,sizeof 5); // sig & field info
a += 5;
WORD fields = gf.fields;

for(int i=0;i<16;i++)
{
    if (fields & 1)
    {
        ((DWORD*)&gf.strength)[i] = *(DWORD*)a;
        a += 4;
    }
    fields /= 2;
}
gf.health /= 256;
gf.healthmax /= 256;
gf.mana /= 256;
gf.manamax /= 256;
gf.stamina /= 256;
gf.staminamax /= 256;
}
else if (strcmp(Sign,Sign_if,sizeof Sign_if-1) == 0)
{
    memcpy(&IF,a,sizeof IF);
    a += sizeof IF;
}
else if (strcmp(Sign,Sign_JM,sizeof Sign_JM-1) == 0)
{
    if (JMn == 0)
    { // first entry

        memcpy(&JMinv,a,sizeof JMinv);
        a += sizeof JMinv;
        JMn++;

    } // first entry
    else if (Items->Count() < JMinv.num)
    { // this belongs into the inventory

        struct
        {
            char    JM[2];
            WORD    unimportant;
            WORD    type;
        } ItemHead;

        memcpy(&ItemHead,a,sizeof ItemHead);

        class Item *I = 0;

        if ((ItemHead.type & 0x0039) == 0x0000) // 1.03 Item Data Type
        {
            I = new Item103;
        }
        else if ((ItemHead.type & 0x0039) == 0x0001) // 1.03 Ear Item Data Type
        {
            I = new Item103Ear;
        }
        else if ((ItemHead.type & 0x0039) == 0x0018) // 1.04 Extended Struct
        {
            I = new Item104Ex;
        }
        else if ((ItemHead.type & 0x0039) == 0x0038) // 1.04 Simple Struct
        {
            I = new Item104Sm;
        }
        else if ((ItemHead.type & 0x0039) == 0x0039) // 1.04 Ear Struct
        {
            I = new Item104Ear;
        }
        else {
            return a-data;
        }

        if (Items) Items->Attach(I);
        else Items = I;

        I->LoadItemRecord(a);
        a += I->ItemRecordLength();
    }
}

```

```

    if (I->Socketed())
    { // Read additional socketed gem records

        for(int g=0;g < I->GemNum();g++)
        {
            memcpy(&ItemHead,a,sizeof ItemHead);

            class Item *G = 0;

            if ((ItemHead.type & 0x0039) == 0x0000) // 1.03 Item Data Type
            {
                G = new Item103;
            }
            else if ((ItemHead.type & 0x0039) == 0x0038) // 1.04 Simple Struct
            {
                G = new Item104Sm;
            }
            else {
                return a-data;
            }

            if (I->Gems == 0) I->Gems = G;
            else I->Gems->Attach(G);

            G->LoadItemRecord(a);
            a += G->ItemRecordLength();
        }

        } // Read additional socketed gem records

    } // this belongs into the inventory
    else
    { // rest data
        restsize = data+size-a;
        rest = new BYTE [restsize];
        memcpy(rest,a,restsize);
        a += restsize;
    } // rest data
    }
    else
        return a-data;
    }
    return -1;
}
bool fileclass::loadfile(HWND hWnd,const char* tempfilename)
{
    if (loaded)
    {
        return false;
    }

    // Open File
    HANDLE hFile = CreateFile(tempfilename,
        GENERIC_READ,FILE_SHARE_READ,NULL,
        OPEN_EXISTING,FILE_ATTRIBUTE_NORMAL,NULL);

    if (hFile == INVALID_HANDLE_VALUE)
    {
        MessageBox(hWnd,"Could not open file!",PROGRAMNAME,
            MB_OK | MB_ICONSTOP | MB_APPLMODAL);
        return false;
    }

    DWORD filesize = GetFileSize(hFile,NULL);

    BYTE* filedata = new BYTE [filesize];
    DWORD fileread;

    // read whole file
    ReadFile(hFile,filedata,filesize,&fileread,NULL);

    if (filesize != fileread)
    {
        delete filedata;
        CloseHandle(hFile);
        MessageBox(hWnd,"Could not read from file!",PROGRAMNAME,
            MB_OK | MB_ICONSTOP | MB_APPLMODAL);
        return false;
    }
}

```



```

int erroffset = transferdata(filedata,filesize);

if (erroffset >= 0)
{
    delete filedata;
    CloseHandle(hFile);
    char text[80];

    sprintf(text,"Corrupt field encountered in save game file! (@ offset %i)",erroffset);
    MessageBox(hWnd,text,PROGRAMNAME,
        MB_OK | MB_ICONSTOP | MB_APPLMODAL);
    clear();
    return false;
}

delete filedata;
CloseHandle(hFile);

loaded = true;
memcpy(filename,tempfilename,sizeof filename);
return true;
}
bool fileclass::reloadfile(HWND hWnd)
{
    clear();
    return loadfile(hWnd,filename);
}
DWORD offset;
inline bool check_written(HWND hWnd,DWORD a,DWORD b,HANDLE hFile)
{
    if (a != b)
    {
        sprintf(buffer,"Could not write to file at offset %i!",offset);
        MessageBox(hWnd,buffer,PROGRAMNAME,
            MB_OK | MB_ICONSTOP | MB_APPLMODAL);
        CloseHandle(hFile);
        return true;
    }
    else return false;
}
bool fileclass::savefile(HWND hWnd)
{
    if (!loaded)
    {
        MessageBox(hWnd,"You didn't open a file!",PROGRAMNAME,
            MB_OK| MB_ICONEXCLAMATION | MB_APPLMODAL);
        return false;
    }

    int user = DialogBox(hInstance,MAKEINTRESOURCE( IDD_SAVE ),hWnd,(DLGPROC) SaveDialogProc);

    if (user == 0) return false;

    if (user == 2)
    { // Copy saved game file

        char newfilename[260];
        strcpy(newfilename,filename);
        strupr(newfilename);

        char *testd2s,*lastd2s = newfilename;
        while( testd2s = strstr(lastd2s, ".D2S" ) )
            lastd2s = testd2s + 1;

        strncpy(lastd2s,"JAM",3);

        if (!CopyFile(filename,newfilename,FALSE))
        {
            MessageBox(hWnd,"Could not make backup copy!\nStopping save.",PROGRAMNAME,
                MB_OK| MB_ICONEXCLAMATION | MB_APPLMODAL);
            return false;
        }
    } // Copy saved game file

    HANDLE hFile = CreateFile(filename,
        GENERIC_WRITE,0,NULL,

```

```

CREATE_ALWAYS,FILE_ATTRIBUTE_NORMAL,NULL);

if (hFile == INVALID_HANDLE_VALUE)
{
    MessageBox(hWnd,"Could not create file!",PROGRAMNAME,
        MB_OK | MB_ICONSTOP | MB_APPLMODAL);
    return false;
}

offset = 0;
DWORD written;

WriteFile(hFile,&Header,sizeof Header,&written,NULL);
if (check_written(hWnd,sizeof Header,written,hFile)) return false;
offset += written;

WriteFile(hFile,&Woo,sizeof Woo,&written,NULL);
if (check_written(hWnd,sizeof Woo,written,hFile)) return false;
offset += written;

WriteFile(hFile,&WS,sizeof WS,&written,NULL);
if (check_written(hWnd,sizeof WS,written,hFile)) return false;
offset += written;

WriteFile(hFile,&w4,sizeof w4,&written,NULL);
if (check_written(hWnd,sizeof w4,written,hFile)) return false;
offset += written;

{
    gf.health *= 256;
    gf.healthmax *= 256;
    gf.mana *= 256;
    gf.manamax *= 256;
    gf.stamina *= 256;
    gf.staminamax *= 256;

    DWORD *a = &gf.strength;

    BYTE gftmp[70];
    BYTE *d = (gftmp+5);

    *(WORD*)&gftmp[0] = 0x6667;
    *(WORD*)&gftmp[2] = 0x0000;

    WORD *fields = (WORD*)&gftmp[2];

    for(int i=0;i<16;i++)
    {
        if (a[i] != 0)
        {
            *fields |= 1 << i;
            *(DWORD*)d = a[i];
            d += 4;
        }
    }

    WriteFile(hFile,&gftmp,d - gftmp,&written,NULL);
    offset += written;

    gf.health /= 256;
    gf.healthmax /= 256;
    gf.mana /= 256;
    gf.manamax /= 256;
    gf.stamina /= 256;
    gf.staminamax /= 256;
}

WriteFile(hFile,&IF,sizeof IF,&written,NULL);
if (check_written(hWnd,sizeof IF,written,hFile)) return false;
offset += written;

{ // Write Inventory

    JMinv.num = Items->Count();

    WriteFile(hFile,&JMinv,sizeof JMinv,&written,NULL);
    if (check_written(hWnd,sizeof JMinv,written,hFile)) return false;
    offset += written;
}

```

```

for(Item *i = Items;i != 0;i = i->Next())
{
    WriteFile(hFile,i->GetItemRecord(),i->ItemRecordLength(),&written,NULL);
    if (check_written(hWnd,i->ItemRecordLength(),written,hFile)) return false;
    offset += written;

    if (i->Socketed())
    {
        Item *G = i->Gems;

        for(int g=0;g < i->GemNum();g++)
        {
            if (!G)
            {
                MessageBox(hWnd,"FATAL Gemmed Item Error!",PROGRAMNAME,
                    MB_OK | MB_ICONSTOP | MB_APPLMODAL);
                return false;
            }

            WriteFile(hFile,G->GetItemRecord(),G->ItemRecordLength(),&written,NULL);
            if (check_written(hWnd,G->ItemRecordLength(),written,hFile)) return false;
            offset += written;

            G = G->Next();
        }
    }
}

WriteFile(hFile,rest,restsize,&written,NULL);
if (check_written(hWnd,restsize,written,hFile)) return false;
offset += written;

CloseHandle(hFile);
MessageBeep(MB_ICONASTERISK);
return true;
}

bool fileclass::discardfile(HWND hWnd)
{
    clear();
    return true;
}

void fileclass::setfilename(const char *file)
{
    char fdir[260];
    if (GetDiabloSaveDirectory(fdir))
    {
        sprintf(filename,"%s\\%s.d2s",fdir,file);
    }
}

```



```

// HelpBox.cpp from D2E
#include "JamellaD2E.h"

HWND hHelpBox = 0;

LRESULT CALLBACK HelpDialogProc(HWND hWnd,UINT uMsg,WPARAM wParam,LPARAM lParam)
{
    switch(uMsg)
    {
    case WM_INITDIALOG:
        {
            // Position Help Box right of Parent Window
            {
                RECT ParentPos;

                GetWindowRect(GetParent(hWnd),&ParentPos);
                ParentPos.left = ParentPos.right;

                SetWindowPos(hWnd,HWND_TOP,
                    ParentPos.left,ParentPos.top,
                    0,0,SWP_NOSIZE | SWP_NOACTIVATE);
            }

            // Load Help File from Resources
            HRSRC rcsrc = FindResource(hInstance,MAKEINTRESOURCE(lParam),"CHELP");
            HGLOBAL hglb = LoadResource(hInstance,rcsrc);
            BYTE *mem = (BYTE*)LockResource(hglb);

            RTFStreamSend(hWnd,IDC_HELP_Text,(const char*)mem);

            CHARRANGE cf = { -1,0 };
            SendDlgItemMessage(hWnd,IDC_HELP_Text,EM_EXSETSEL,0,(LPARAM)&cf);

            ShowWindow(hWnd,SW_SHOWNA);
        }
        return true;
    case WM_WINDOWPOSCHANGED:
        {
            RECT Rect;
            GetClientRect(hWnd,&Rect);
            SetWindowPos(GetDlgItem(hWnd,IDC_HELP_Text),HWND_TOP,0,0,Rect.right - Rect.left,Rect.bottom - Rect.top,SWP_N
OACTIVATE);
        }
        return false;
    case WM_COMMAND:
        switch (LOWORD(wParam))
        {
        case IDC_HELP_Text:
            if (HIWORD(wParam) == EN_SETFOCUS)
            {
                CHARRANGE cf = { -1,0 };
                SendDlgItemMessage(hWnd,IDC_HELP_Text,EM_EXSETSEL,0,(LPARAM)&cf);
            }
            return true;
        case IDOK:
        case IDCANCEL:
            EndDialog(hWnd,wParam);
            hHelpBox = 0;
            return true;
        }
        break;
    case WM_CLOSE:
        EndDialog(hWnd,IDOK);
        hHelpBox = 0;
        CheckDlgButton(GetParent(hWnd),IDC_CHELP,BST_UNCHECKED);
        return true;
    case WM_DESTROY:
        return false;
    }
    return false;
}

bool ToggleHelpBox(HWND hWnd,int HELPID)
{
    if (hHelpBox) {
        CheckDlgButton(hWnd,IDC_CHELP,BST_UNCHECKED);
        CloseHelpBox();
        return false;
    }
}

```

```
    }  
    else {  
        CheckDlgButton(hWnd, IDC_CHELP, BST_CHECKED);  
        hHelpBox = CreateDialogParam(hInstance, MAKEINTRESOURCE( IDD_HELP), hWnd, (DLGPROC)&HelpDialogProc, HELPID);  
        SetFocus(hWnd);  
        return true;  
    }  
}  
  
void CloseHelpBox()  
{  
    if (hHelpBox) {  
        EndDialog(hHelpBox, 0);  
        hHelpBox = 0;  
    }  
}
```

```

// InfoBox.cpp from D2E

#include "JamellaD2E.h"

HBITMAP hBmpWebLink;

static int          RTFStreamOffset;
static const char*  RTFCharStream;

static DWORD CALLBACK RTFStreamCallback(DWORD dwCookie,LPBYTE pbBuff,ULONG cb,ULONG FAR *pcb)
{
    if (!RTFCharStream) return -1;
    if (strlen(RTFCharStream) - RTFStreamOffset <= 0) return -1;

    *pcb = min((LONG)strlen(RTFCharStream) - RTFStreamOffset,cb);
    strncpy((char *)pbBuff,RTFCharStream + RTFStreamOffset,*pcb);

    RTFStreamOffset += *pcb;

    return 0;
}

void RTFStreamSend(HWND hWnd,int CtrlID,const char* Stream)
{
    RTFStreamOffset = 0;
    RTFCharStream = Stream;

    EDITSTREAM edstr;
    edstr.dwCookie = 0;
    edstr.dwError = 0;
    edstr.pfnCallback = &RTFStreamCallback;

    SendDlgItemMessage(hWnd,CtrlID,EM_STREAMIN,SF_RTF,(LPARAM) &edstr);
}

LRESULT CALLBACK InfoDialogProc(HWND hWnd,UINT uMsg,WPARAM wParam,LPARAM lParam)
{
    switch(uMsg)
    {
    case WM_INITDIALOG:
        {
            sprintf(buffer,"%s\n%s",PROGRAMNAME,VERSION);
            SetDlgItemText(hWnd,IDC_INFO_Program,buffer);

            sprintf(buffer,"Built on %s at %s\nVersion Code: %s",__DATE__,__TIME__,RELEASECODE);
            SetDlgItemText(hWnd,IDC_INFO_Date,buffer);

            SetDlgItemText(hWnd,IDC_INFO_URL,PERMANENTURL);
            SetDlgItemText(hWnd,IDC_INFO_Email,EMAIL);

            SendDlgItemMessage(hWnd,IDC_INFO_LINK,EM_SETIMAGE,IMAGE_BITMAP,(LPARAM)hBmpWebLink);
            PlaySound(MAKEINTRESOURCE(IDR_WAVE_JamellaSound),hInstance,SND_RESOURCE | SND_ASYNC);
        }
        return true;
    case WM_COMMAND:
        switch (LOWORD(wParam))
        {
        case IDC_INFO_LINK:
            ShellExecute(NULL,"open",PERMANENTURL,NULL,NULL,SW_SHOWMAXIMIZED);
            return true;
        case IDOK:
        case IDCANCEL:
            EndDialog(hWnd,wParam);
            return true;
        }
        break;
    case WM_CLOSE:
        EndDialog(hWnd,wParam);
        return true;
    case WM_DESTROY:
        return false;
    }
    return false;
}

```

```
// Inventory Grid Options
#include "JamellaD2E.h"
#if INVGRIDS == 0
// D2 Standard Sizes
struct InvGrids InvGrids =
{
    10,4,    // X/Y Inventory
    6,4,    // X/Y Stash
    3,4,    // X/Y Cube
    4,4     // X/Y Belt
};
#else
// Extended Grids for Fusman
struct InvGrids InvGrids =
{
    10,6,    // X/Y Inventory
    10,7,    // X/Y Stash
    8,9,    // X/Y Cube
    4,4     // X/Y Belt
};
#endif

void SetInvGridPreset(int i)
{
}
```



```

// Item.cpp from D2E
// Contains methods of Item base class

#include "JamellaD2E.h"

class Item *Items = 0;

Item::Item()
{
    ListNext = ListPrev = 0;
    Busy = Decoded = false;
    Info = 0;
    MD = 0;

    Gems = 0;
    GInfo = 0;
}
Item::~Item()
{
    if (ListNext) {
        delete ListNext;
        ListNext = 0;
    }
}

// Chained List Functions
int Item::Count()
{
    if (this == 0) return 0;
    return ListNext->Count() + 1;
}
Item* Item::GetOrdinal(int i)
{
    if (i == 0) return this;
    else if (!ListNext) return 0;
    else return ListNext->GetOrdinal(i-1);
}
void Item::Attach(Item *i)
{
    if (this == 0)
    {
        Items = i;
        i->ListPrev = i->ListNext = 0;
    }
    else if (!ListNext)
    {
        ListNext = i;
        ListNext->ListPrev = this;
    }
    else ListNext->Attach(i);
}
void Item::Delete()
{
    if (this == 0) return;
    if (ListPrev == 0)
    {
        Items = ListNext;
        if (ListNext)
            ListNext->ListPrev = 0;

        ListNext = 0;
        delete this;
    }
    else
    {
        ListPrev->ListNext = ListNext;
        if (ListNext)
            ListNext->ListPrev = ListPrev;

        ListNext = 0;
        delete this;
    }
}
#undef AssertBox
#define AssertBox
// Virtual Functions
bool Item::LoadItemRecord(BYTE *data)
{
    AssertBox("Base class cannot be loaded with an item record!");
}

```

```

    return false;
}
BYTE* Item::GetItemRecord()
{
    AssertBox("Base class cannot give an item record!");
    return 0;
}
DWORD Item::ItemRecordLength()
{
    return 0;
}
void Item::BlankItem()
{
}
int Item::Container() const
{
    // AssertBox("Base class cannot return a container!");
    return CNT_NONE;
}
int Item::xPos() const
{
    // AssertBox("Base class cannot return a x-coordinate!");
    return 0;
}
int Item::yPos() const
{
    // AssertBox("Base class cannot return a y-coordinate!");
    return 0;
}
int Item::xPixelPos() const
{
    return xPos() * 29 - 1;
}
int Item::yPixelPos() const
{
    return yPos() * 29 - 1;
}
int Item::xSize()
{
    // AssertBox("Base class cannot return a x-size!");
    return 0;
}
int Item::ySize()
{
    // AssertBox("Base class cannot return a y-size!");
    return 0;
}
int Item::xPixelSize()
{
    return xSize() * 29 - 1;
}
int Item::yPixelSize()
{
    return ySize() * 29 - 1;
}
bool Item::isInRegion(int x,int y)
{
    if (x < xPixelPos() || x > xPixelPos() + xPixelSize()) return false;
    if (y < yPixelPos() || y > yPixelPos() + yPixelSize()) return false;
    return true;
}
bool Item::SetCoordinates(int Container,int xPos,int yPos)
{
    AssertBox("Base class cannot be set coordinates!");
    return false;
}
int Item::BodyCode()
{
    // AssertBox("Base class does not have valid BodyCode() method!");
    return 0;
}
int Item::BodyPlace()
{
    if (!this || !Info) return -1;
    return Info->BodyPlace;
}
bool Item::FindInfo()
{

```

```

    AssertBox("Base class cannot find item info!");
    return false;
}
HBITMAP Item::GetBitmap()
{
    return itemunknown.hBmp;
}
// Simple Item Properties
DWORD Item::ItemCode()
{
    AssertBox("Base class does not have valid ItemCode() method!");
    return 0;
}
void Item::SetItemCode(DWORD x)
{
    AssertBox("Base class does not have valid SetItemCode(DWORD) method!");
}
int Item::UniqueCode()
{
    AssertBox("Base class does not have valid UniqueCode() method!");
    return 0;
}
void Item::SetUniqueCode(int x)
{
    AssertBox("Base class does not have valid SetUniqueCode(int) method!");
}

int Item::Quality()
{
    return USUALITEM;
}
void Item::SetQuality(int x)
{
    AssertBox("Base class does not have valid SetQuality(int) method!");
}
int Item::Quantity()
{
    AssertBox("Base class does not have valid Quantity() method!");
    return 0;
}
void Item::SetQuantity(int i)
{
    AssertBox("Base class does not have valid SetQuantity(int) method!");
}

int Item::Durability()
{
    AssertBox("Base class does not have valid Durability() method!");
    return 0;
}
void Item::SetDurability(int x)
{
    AssertBox("Base class does not have valid SetDurability(int) method!");
}
int Item::DurabilityMax()
{
    AssertBox("Base class does not have valid DurabilityMax() method!");
    return 0;
}
void Item::SetDurabilityMax(int x)
{
    AssertBox("Base class does not have valid SetDurabilityMax(int) method!");
}
DWORD Item::DWA()
{
    AssertBox("Base class does not have valid DWA() method!");
    return 0;
}
void Item::SetDWA(DWORD x)
{
    AssertBox("Base class does not have valid SetDWA(DWORD) method!");
}
DWORD Item::DWB()
{
    AssertBox("Base class does not have valid DWB() method!");
    return 0;
}
void Item::SetDWB(DWORD x)
{

```

```

    AssertBox("Base class does not have valid SetDWB(DWORD) method!");
}
DWORD Item::DWARandomOffset(int x)
{
    RAND r = { DWA(), 666 };

    for(int z=0;z<x;z++)
        Random(&r);

    return r.Seed;
}
DWORD Item::DWBRandomOffset(int x)
{
    RAND r = { DWB(), 666 };

    for(int z=0;z<x;z++)
        Random(&r);

    return r.Seed;
}

int Item::MagicLevel()
{
    AssertBox("Base class does not have valid MagicLevel() method!");
    return 0;
}
void Item::SetMagicLevel(int x)
{
    AssertBox("Base class does not have valid SetMagicLevel(int) method!");
}

int Item::GemNum()
{
    AssertBox("Base class does not have valid GemNum() method!");
    return 0;
}
void Item::SetGemNum(int i)
{
    AssertBox("Base class does not have valid SetGemNum(int) method!");
}

bool Item::Socketed()
{
    AssertBox("Base class does not have valid Socketed() method!");
    return 0;
}
void Item::SetSocketed(bool i)
{
    AssertBox("Base class does not have valid SetSocketed(bool) method!");
}
bool Item::Socketable()
{
    if (!Info) FindInfo();
    if (Info) return (Info->Sockets > 0);
    else return 0;
}
bool Item::Identified()
{
    AssertBox("Base class does not have valid Identified() method!");
    return 0;
}
void Item::SetIdentified(bool i)
{
    AssertBox("Base class does not have valid SetIdentified(DWORD) method!");
}
bool Item::Starter()
{
    AssertBox("Base class does not have valid Starter() method!");
    return 0;
}
void Item::SetStarter(bool i)
{
    AssertBox("Base class does not have valid SetStarter(DWORD) method!");
}

// Ear-specific Properties
int Item::OpponentClass()
{
    AssertBox("Base class does not have valid OpponentClass() method!");
}

```

```

    return 0;
}
void Item::SetOpponentClass(int x)
{
    AssertBox("Base class does not have valid SetStarter(int) method!");
}
const char* Item::OpponentClassString()
{
    AssertBox("Base class does not have valid OpponentClassString() method!");
    return 0;
}
int Item::OpponentLevel()
{
    AssertBox("Base class does not have valid OpponentLevel() method!");
    return 0;
}
void Item::SetOpponentLevel(int x)
{
    AssertBox("Base class does not have valid SetOpponentLevel(int) method!");
}
const char* Item::OpponentName()
{
    AssertBox("Base class does not have valid OpponentName() method!");
    return 0;
}
void Item::SetOpponentName(const char *s)
{
    AssertBox("Base class does not have valid SetOpponentName(const char *) method!");
}
int Item::BaseDefense()
{
    AssertBox("Base class does not have valid BaseDefense() method!");
    return 0;
}
ArmorClass Item::Defense()
{
    AssertBox("Base class does not have valid BaseDefense() method!");
    ArmorClass AC = { 0, 0, false };
    return AC;
}
Damage Item::WeaponDamage()
{
    AssertBox("Base class does not have valid WeaponDamage() method!");
    Damage WD = { 0, 0,0, 0,0, false };
    return WD;
}
unsigned int Item::RequiredStrength()
{
    if (!Info)
        if (!FindInfo()) return 0;
    return Info->MinStr;
}
unsigned int Item::RequiredDexterity()
{
    if (!Info)
        if (!FindInfo()) return 0;
    return Info->MinDex;
}
unsigned int Item::RequiredELevel()
{
    AssertBox("Base class does not have valid RequiredELevel() method");
    return 0;
}
bool Item::isWearable()
{
    #if defined(JAMELLAEDITOR)
    bool is = true;
    if (Info) {
        if (RequiredStrength() > fc.gf.strength) is = false;
        if (RequiredDexterity() > fc.gf.dexterity) is = false;
    }
    if (RequiredELevel() > fc.gf.level) is = false;

    return is;
    #else
    return true;
    #endif
}

```

```

bool Item::Decode()
{
    // AssertBox("Base class does not have valid Decode() method!");
    return false;
}
const char* Item::Name()
{
    if (!Info)
        if (!FindInfo())
            return 0;

    return Info->ItemName;
}
const char* Item::RichText()
{
    // AssertBox("Base class does not have valid RichText() method!");
    return 0;
}
bool Item::FindGemInfo()
{
    GInfo = 0;
    return false;
}

char Item::NameTmp[256];
char Item::RichTextTmp[2048];

void Item::StartRTF(char *s)
{
    *s = 0;

    // RTF Header
    strcat(s, "\\rtf1\\ansi\\ansicpg1252\\deff0\\deflang1031");

    // RTF Font Table (just normal font)
    strcat(s, "\\fonttbl{\\f0\\fswiss\\fcharset0 MS Sans Serif;}");

    // Color Table:
    // 0 = Regular Items
    strmcat(s, "\\colortbl ;",
        "\\red72\\green80\\blue184;", // 1 = Magic Items
        "\\red255\\green255\\blue0;", // 2 = Rare Items
        "\\red0\\green196\\blue0;", // 3 = Set Items
        "\\red144\\green136\\blue88;", // 4 = Unique Items
        "\\red124\\green124\\blue124;", // 5 = Socketed Items
        "\\red255\\green0\\blue0;}", // 6 = Red (Error or Unidentified)
        0);

    // Start Paragraph
    strcat(s, "\\uc1\\pard\\qc\\b\\f0\\fs16");
}

```

```

// Item103.cpp from D2E
// Contains methods for the Class Item103 representing old item data structures from patch version 1.03

#include "JamellaD2E.h"

Item103::Item103()
{
    ZeroMemory(&Data,sizeof Data);
    MD = new class MagicDecoder(this);
}
Item103::~Item103()
{
    delete MD;
    if (ListNext) {
        delete ListNext;
        ListNext = 0;
    }
}
bool Item103::LoadItemRecord(BYTE *record)
{
    if (*(record+0) != 'J' && *(record+1) != 'M')
        return false;

    memcpy(&Data,record,sizeof Data);
    Info = 0;
    return true;
}
BYTE* Item103::GetItemRecord()
{
    return (BYTE*) &Data;
}
DWORD Item103::ItemRecordLength()
{
    return sizeof Data;
}
void Item103::BlankItem()
{
    ZeroMemory(&Data,sizeof Data);

    Data.JM[0] = 0x4A;
    Data.JM[1] = 0x4D;
    Data.bitfield1 = 0x0010;
    Data.bitfield2 = 0x0000;
}
int Item103::Container() const
{
    if ((Data.container & 0x07F8) == 0x0000) return CNT_INVENTORY;
    if ((Data.container & 0x07F8) == 0x0020) return CNT_STASH;
    if ((Data.container & 0x07F8) == 0x0018) return CNT_CUBE;
    if ((Data.container & 0x07F8) == 0x07F8)
    { // On Body or On Belt
        if (Data.itemcode & 0x8000)
            return CNT_BELT;
        if (Data.itemcode & 0x4000)
            return CNT_BODY;
    }
    return CNT_NONE;
}
int Item103::xPos() const
{
    switch(Container())
    {
    default:
        return 0;
    case CNT_INVENTORY:
    case CNT_STASH:
    case CNT_CUBE:
        return (Data.coordinates & 0x3E) >> 1;
    case CNT_BELT:
        return (Data.coordinates & 0x06) >> 1;
    }
}
int Item103::yPos() const
{
    switch(Container())
    {
    default:
        return 0;
    case CNT_INVENTORY:

```

```

case CNT_STASH:
case CNT_CUBE:
    return (Data.coordinates & 0xC0) >> 6;
case CNT_BELT:
    return 3 - ((Data.coordinates & 0x18) >> 3);
}
}
int Item103::xSize()
{
    if (!this && SelInfo) return SelInfo->SizeX;
    if (!this) return 1;

    if (!Info) FindInfo();
    return Info->SizeX;
}
int Item103::ySize()
{
    if (!this && SelInfo) return SelInfo->SizeY;
    if (!this) return 1;

    if (!Info) FindInfo();
    return Info->SizeY;
}
bool Item103::SetCoordinates(int Container,int xPos,int yPos)
{
    switch(Container)
    {
    default:
        return false;
    case CNT_INVENTORY:
        {
            if (xPos < 0 || xPos >= InvGrids.xInventory) return false;
            if (yPos < 0 || yPos >= InvGrids.yInventory) return false;

            Data.container = (Data.container & 0xF807) | 0x0000;
            Data.coordinates = (Data.coordinates & 0xC1) | (xPos << 1);
            Data.coordinates = (Data.coordinates & 0x3F) | (yPos << 6);

            Data.bitfield3 &= 0xF0;
            Data.itemcode &= 0x3FFF;
            return true;
        }
    case CNT_STASH:
        {
            if (xPos < 0 || xPos >= InvGrids.xStash) return false;
            if (yPos < 0 || yPos >= InvGrids.yStash) return false;

            Data.container = (Data.container & 0xF807) | 0x0020;
            Data.coordinates = (Data.coordinates & 0xC1) | (xPos << 1);
            Data.coordinates = (Data.coordinates & 0x3F) | (yPos << 6);

            Data.bitfield3 &= 0xF0;
            Data.itemcode &= 0x3FFF;
            return true;
        }
    case CNT_CUBE:
        {
            if (xPos < 0 || xPos >= InvGrids.xCube) return false;
            if (yPos < 0 || yPos >= InvGrids.yCube) return false;

            Data.container = (Data.container & 0xF807) | 0x0018;
            Data.coordinates = (Data.coordinates & 0xC1) | (xPos << 1);
            Data.coordinates = (Data.coordinates & 0x3F) | (yPos << 6);

            Data.bitfield3 &= 0xF0;
            Data.itemcode &= 0x3FFF;
            return true;
        }
    case CNT_BELT:
        {
            if (xPos < 0 || xPos >= InvGrids.xBelt) return false;
            if (yPos < 0 || yPos >= InvGrids.yBelt) return false;

            Data.container = (Data.container & 0xF807) | 0x07F8;
            Data.coordinates = (Data.coordinates & 0xF9) | (xPos << 1);
            Data.coordinates = (Data.coordinates & 0xE7) | ((3-yPos) << 3);

            Data.bitfield3 = (Data.bitfield3 & 0xF0) | 0x00;
            Data.itemcode &= 0x3FFF;
        }
    }
}

```



```

        Data.itemcode |= 0x8000;
        return true;
    }
    case CNT_SOCKET:
    {
        Data.container = (Data.container & 0xF807) | 0x07F8;
        Data.coordinates = Data.coordinates & 0xF9;
        Data.coordinates = Data.coordinates & 0xE7;

        Data.bitfield3 = (Data.bitfield3 & 0xF0) | 0x00;
        Data.itemcode &= 0x3FFF;
        Data.itemcode |= 0x8000;
        return true;
    }
    case CNT_BODY:
    {
        if (xPos < 1 || xPos > 10) return false;

        Data.container = (Data.container & 0xF807) | 0x07F8;
        Data.coordinates &= 0x01;

        Data.bitfield3 = (Data.bitfield3 & 0xF0) | (xPos & 0x0F);
        Data.itemcode &= 0x3FFF;
        Data.itemcode |= 0x4000;
        return true;
    }
}
}
}
bool Item103::FindInfo()
{
    Info = &itemunknown;

    RAND RDWB = { DWB(), 666 };
    StartRandoms(this,&RDWB);
    int DWB0 = Random(&RDWB);

    for(int z=0;z<nItemInfos;z++)
    {
        // Check Item Code
        if (ItemCode() != ItemInfos[z].ItemCode) continue;

        // Check if Set or Unique Item
        switch(ItemInfos[z].ItemSearch)
        {
            case 'U':
                if (Quality() != UNIQUEITEM) continue;

                // Check Set/Unique Item Class Code
                if (UniqueCode() != ItemInfos[z].UniqueCode) continue;

                break;
            case 'S':
                if (Quality() != SETITEM) continue;

                // Check Set/Unique Item Class Code
                if (UniqueCode() != ItemInfos[z].UniqueCode) continue;

                // Get correct set item when there are multiple possibilities
                if (ItemInfos[z].DWBCode != 0)
                {
                    int offset = DWB0 % 0x10;
                    if (( ItemInfos[z].DWBCode & (1 << offset) ) == 0) continue;
                }

                break;
        }

        Info = &ItemInfos[z];
    }

    if (!Info || (!Info->BitmapID && Info->ItemCode != 0x1170 && Info->ItemCode != 0x1190))
    {
        Info = &itemunknown;
        return false;
    }
    return true;
}
HBITMAP Item103::GetBitmap()

```

```

{
    if (!Info) FindInfo();

    // Amulets
    if (ItemCode() == 0x1170)
    {
        int x = DWARandomOffset(1) % 3;
        return AmuletImages[x].hBmp;
    }
    // Rings
    if (ItemCode() == 0x1190)
    {
        return RingImages[DWARandomOffset(1) % 5].hBmp;
    }

    return ItemInfoGetBitmap(Info);
}
DWORD Item103::ItemCode()
{
    return Data.itemcode & 0x3FF0;
}
void Item103::SetItemCode(DWORD x)
{
    Data.itemcode = (Data.itemcode & 0xC00F) | (WORD(x) & 0x3FF0);
    FindInfo();
}
int Item103::UniqueCode()
{
    return Data.specialitemcode;
}
void Item103::SetUniqueCode(int x)
{
    Data.specialitemcode = x;
    FindInfo();
}
int Item103::Quality()
{
    return Data.quantity & 0x000F;
}
void Item103::SetQuality(int x)
{
    Data.quantity = (Data.quantity & 0xFFF0) | (x & 0x000F);
    FindInfo();
}
bool Item103::Socketed()
{
    return (Data.bitfield1 & 0x0800) != 0;
}
void Item103::SetSocketed(bool i)
{
    Data.bitfield1 = (Data.bitfield1 & 0xF7FF) | (i << 11);
}
bool Item103::Socketable()
{
    if (!Info) FindInfo();
    return (Info->Sockets != 0);
}
bool Item103::Identified()
{
    return (Data.bitfield1 & 0x0010) != 0;
}
void Item103::SetIdentified(bool i)
{
    Data.bitfield1 = Data.bitfield1 & 0xFFEF | (i << 4);
}
bool Item103::Starter()
{
    return (Data.bitfield2 & 0x0002) != 0;
}
void Item103::SetStarter(bool i)
{
    Data.bitfield2 = Data.bitfield2 & 0xFFFD | (i << 1);
}
int Item103::Quantity()
{
    return ((Data.quantity & 0xFFE0) >> 5) +
        ((Data.quantity & 0xFF) << 11);
    // return (Data.quantity & 0x1FE0) >> 5;
}

```

```

void Item103::SetQuantity(int i)
{
#ifdef JAMELLAEDITOR
    if (!RegOptions.ExceedQuantity) {
        Data.quantity = (Data.quantity & 0xE01F) | ((i & 0x00FF) << 5);
    }
    else {
        Data.quantity = (Data.quantity & 0x001F) | ((i & 0x1FFF) << 5);
        Data.quantityex = (i >> 11);
    }
#else
    Data.quantity = (Data.quantity & 0xE01F) | ((i & 0x00FF) << 5);
#endif
}
int Item103::Durability()
{
    return (Data.durability & 0x01FE) >> 1;
}
void Item103::SetDurability(int i)
{
    if (i > DurabilityMax()) i = DurabilityMax();
    if (i > 255) i = 255;

    Data.durability = (Data.durability & 0xFE01) | ((i & 0xFF) << 1);
}
int Item103::DurabilityMax()
{
    return ((Data.durability & 0xFE00) >> 9) + ((Data.coordinates & 0x01) * 128);
}
void Item103::SetDurabilityMax(int i)
{
    if (i > 255) i = 255;

    Data.durability = (Data.durability & 0x01FF) | ((i & 0x7F) << 9);
    Data.coordinates = (Data.coordinates & 0xFE) | ((i & 0x80) ? 0x01 : 0x00);
}
int Item103::GemNum()
{
    return (Data.bitfield3 & 0x60) >> 5;
}
void Item103::SetGemNum(int i)
{
    Data.bitfield3 = (Data.bitfield3 & 0x1F) | ((i%8) << 5);
}
int Item103::BodyCode()
{
    return Data.bitfield3 & 0x0F;
}
DWORD Item103::DWA()
{
    return ( (Data.properties2 & 0x07) << 29 ) |
        ( (Data.properties1 & 0xFFFFFFFF8) >> 3 );
}
void Item103::SetDWA(DWORD x)
{
    Data.properties1 = (Data.properties1 & 0x00000007) | ( (x & 0x1FFFFFFF) << 3 );
    Data.properties2 = (Data.properties2 & 0xFFFFFFFF8) | BYTE( (x & 0xE0000000) >> 29 );
}
DWORD Item103::DWB()
{
    return ( (Data.container & 0x07) << 29 ) |
        ( (Data.properties2 & 0xFFFFFFFF8) >> 3 );
}
void Item103::SetDWB(DWORD x)
{
    Data.container = (Data.container & 0xFFF8) | BYTE( (x & 0xE0000000) >> 29 );
    Data.properties2 = (Data.properties2 & 0x00000007) | ( (x & 0x1FFFFFFF) << 3 );
}
int Item103::MagicLevel()
{
    return Data.modlevel;
}
void Item103::SetMagicLevel(int x)
{
    Data.modlevel = x;
}
bool Item103::FindGemInfo()

```

```
{
  GInfo = 0;
  for(int z=0;z<nGemInfos;z++)
  {
    // Check Item Code
    if (ItemCode() != GemInfos[z].ItemCode) continue;
    GInfo = &GemInfos[z];
    return true;
  }
  return false;
}
```

```

// Item103EarEar.cpp from D2E
// Contains methods for the Class Item103Ear representing old item data structures from patch version 1.03 for ears

#include "Jamellad2E.h"

Item103Ear::Item103Ear()
{
    ZeroMemory(&Data,sizeof Data);
}
Item103Ear::~Item103Ear()
{
    if (ListNext) {
        delete ListNext;
        ListNext = 0;
    }
}
bool Item103Ear::LoadItemRecord(BYTE *record)
{
    if (*(record+0) != 'J' && *(record+1) != 'M')
        return false;

    memcpy(&Data,record,sizeof Data);
    Info = 0;
    return true;
}
BYTE* Item103Ear::GetItemRecord()
{
    return (BYTE*) &Data;
}
DWORD Item103Ear::ItemRecordLength()
{
    return sizeof Data;
}
void Item103Ear::BlankItem()
{
    ZeroMemory(&Data,sizeof Data);

    Data.JM[0] = 0x4A;
    Data.JM[1] = 0x4D;
    Data.bitfield1 = 0x0010;
    Data.bitfield2 = 0x0001;

    SetOpponentName("SetNewName");
}
int Item103Ear::Container() const
{
    if ((Data.container & 0x60) == 0x00) return CNT_INVENTORY;
    if ((Data.container & 0x60) == 0x40) return CNT_STASH;
    if ((Data.container & 0x60) == 0x60) return CNT_CUBE;
    return CNT_NONE;
}
int Item103Ear::xPos() const
{
    return (Data.coordinates & 0x007C) >> 2;
}
int Item103Ear::yPos() const
{
    return (Data.coordinates & 0x0180) >> 7;
}
int Item103Ear::xSize()
{
    if (!this && SelInfo) return SelInfo->SizeX;
    if (!this) return 1;

    if (!Info) FindInfo();
    return Info->SizeX;
}
int Item103Ear::ySize()
{
    if (!this && SelInfo) return SelInfo->SizeY;
    if (!this) return 1;

    if (!Info) FindInfo();
    return Info->SizeY;
}
bool Item103Ear::SetCoordinates(int Container,int xPos,int yPos)
{
    switch(Container)

```

```

{
default:
    return false;
case CNT_INVENTORY:
    {
        if (xPos < 0 || xPos >= InvGrids.xInventory) return false;
        if (yPos < 0 || yPos >= InvGrids.yInventory) return false;

        Data.container = (Data.container & 0x9F) | 0x00;
        Data.coordinates = (Data.coordinates & 0xFF83) | (xPos << 2);
        Data.coordinates = (Data.coordinates & 0xFE7F) | (yPos << 7);
        return true;
    }
case CNT_STASH:
    {
        if (xPos < 0 || xPos >= InvGrids.xStash) return false;
        if (yPos < 0 || yPos >= InvGrids.yStash) return false;

        Data.container = (Data.container & 0x9F) | 0x40;
        Data.coordinates = (Data.coordinates & 0xFF83) | (xPos << 2);
        Data.coordinates = (Data.coordinates & 0xFE7F) | (yPos << 7);
        return true;
    }
case CNT_CUBE:
    {
        if (xPos < 0 || xPos >= InvGrids.xCube) return false;
        if (yPos < 0 || yPos >= InvGrids.yCube) return false;

        Data.container = (Data.container & 0x9F) | 0x60;
        Data.coordinates = (Data.coordinates & 0xFF83) | (xPos << 2);
        Data.coordinates = (Data.coordinates & 0xFE7F) | (yPos << 7);
        return true;
    }
}
}
bool Item103Ear::FindInfo()
{
    Info = &itemunknown;

    for(int z=0;z<nItemInfos;z++)
    {
        // Check Item Code
        if (ItemCode() != ItemInfos[z].ItemCode) continue;

        // Check if Set or Unique Item
        if (ItemInfos[z].ItemSearch != 'N') continue;

        Info = &ItemInfos[z];
    }

    if (!Info || !Info->BitmapID)
    {
        Info = &itemunknown;
        return false;
    }
    return true;
}
HBITMAP Item103Ear::GetBitmap()
{
    if (!Info) FindInfo();

    return ItemInfoGetBitmap(Info);
}
DWORD Item103Ear::ItemCode()
{
    return (Data.itemcode & 0x7FE0) >> 1;
}
void Item103Ear::SetItemCode(DWORD x)
{
    Data.itemcode = (Data.itemcode & 0x801F) | ((WORD(x) << 1) & 0x7FE0);
    FindInfo();
}
int Item103Ear::OpponentClass()
{
    return (Data.coordinates & 0x1C00) >> 10;
}
const char *Item103Ear::OpponentClassString()
{
    int x = OpponentClass();

```

```

    if (x >= 0 && x < 5)
        return CharClasses[x];
    else
        return "Error!!!";
}
void Item103Ear::SetOpponentClass(int x)
{
    Data.coordinates = (Data.coordinates & 0xE3FF) | ((x % 5) << 10);
}
int Item103Ear::OpponentLevel()
{
    return ((Data.string[0] & 0xF0) >> 4) +
        ((Data.string[1] & 0x0F) << 4);
}
void Item103Ear::SetOpponentLevel(int x)
{
    x %= 100;

    Data.string[0] = (Data.string[0] & 0x0F) | ((x & 0x0F) << 4);
    Data.string[1] = (Data.string[1] & 0xF0) | ((x & 0xF0) >> 4);
}
char Item103Ear::OpponentNameChar(int n)
{
    int bitoffset = 12 + n * 7;

    // Get First Part
    int B = bitoffset / 8;
    int V = bitoffset % 8;
    char c = (Data.string[B] >> V) & 0x7F;

    // Get Secound Part
    int rest = 8 - V;
    int mask = (0xFF << (V-1)) ^ 0xFF;
    c |= (Data.string[B+1] & mask) << rest;

    return c;
}
void Item103Ear::SetOpponentNameChar(int n,char c)
{
    int bitoffset = 12 + n * 7;

    // Get First Part
    int B = bitoffset / 8;
    int V = bitoffset % 8;
    int mask1 = (0xFF << V) ^ 0xFF;
    Data.string[B] = (Data.string[B] & mask1) | ( (c << V) & (mask1 ^ 0xFF) );

    int rest = 8 - V;
    int mask2 = 0xFF << (V-1);
    Data.string[B+1] = (Data.string[B+1] & mask2) | ( (c >> rest) & (mask2 ^ 0xFF) );
}
static char ItemOpponentNameTemp[20];
const char* Item103Ear::OpponentName()
{
    memset(ItemOpponentNameTemp,0,sizeof ItemOpponentNameTemp);

    for(int z=0;z<15;z++)
        ItemOpponentNameTemp[z] = OpponentNameChar(z);

    return ItemOpponentNameTemp;
}
void Item103Ear::SetOpponentName(const char *s)
{
    for(int z=0;z<15;z++)
        SetOpponentNameChar(z,*s++);

    SetOpponentNameChar(15,0);
}
const char* Item103Ear::Name()
{
    sprintf(NameTmp,"%s's Ear",OpponentName());
    return NameTmp;
}
const char* Item103Ear::RichText()
{
    char *s = RichTextTmp;
    StartRTF(s);

    strncat(s,"\\cf0 ",Name(),0);
}

```

```
char buffers[2][64];

// Ear Descriptions
strncat(s, "\\par ", OpponentClassString(), 0);
sprintf(buffers[0], "\\par Level %i", OpponentLevel());
strcat(s, buffers[0]);

strcat(s, "\\par }");

return s;
}
```



```

// Iteml03EarEar.cpp from D2E
// Contains methods for the Class Iteml04Ear representing old item data structures from patch version 1.03 for ears

#include "Jamellad2E.h"

Iteml04Ear::Iteml04Ear()
{
    ZeroMemory(&Data,sizeof Data);
}
Iteml04Ear::~Iteml04Ear()
{
    if (ListNext) {
        delete ListNext;
        ListNext = 0;
    }
}
bool Iteml04Ear::LoadItemRecord(BYTE *record)
{
    if (*(record+0) != 'J' && *(record+1) != 'M')
        return false;

    memcpy(&Data,record,sizeof Data);
    Info = 0;
    return true;
}
BYTE* Iteml04Ear::GetItemRecord()
{
    return (BYTE*) &Data;
}
DWORD Iteml04Ear::ItemRecordLength()
{
    return sizeof Data;
}
void Iteml04Ear::BlankItem()
{
    ZeroMemory(&Data,sizeof Data);

    Data.JM[0] = 0x4A;
    Data.JM[1] = 0x4D;
    Data.bitfield1 = 0x0010;
    Data.bitfield2 = 0x0039;

    SetOpponentName("SetNewName");
}
int Iteml04Ear::Container() const
{
    if ((Data.coordinates & 0x1C00) == 0x0000) return CNT_INVENTORY;
    if ((Data.coordinates & 0x1C00) == 0x1000) return CNT_STASH;
    if ((Data.coordinates & 0x1C00) == 0x0C00) return CNT_CUBE;
    return CNT_NONE;
}
int Iteml04Ear::xPos() const
{
    return (Data.coordinates & 0x007C) >> 2;
}
int Iteml04Ear::yPos() const
{
    return (Data.coordinates & 0x0180) >> 7;
}
int Iteml04Ear::xSize()
{
    if (!this && SelInfo) return SelInfo->SizeX;
    if (!this) return 1;

    if (!Info) FindInfo();
    return Info->SizeX;
}
int Iteml04Ear::ySize()
{
    if (!this && SelInfo) return SelInfo->SizeY;
    if (!this) return 1;

    if (!Info) FindInfo();
    return Info->SizeY;
}
bool Iteml04Ear::SetCoordinates(int Container,int xPos,int yPos)
{
    switch(Container)

```

```

{
default:
    return false;
case CNT_INVENTORY:
    {
        if (xPos < 0 || xPos >= InvGrids.xInventory) return false;
        if (yPos < 0 || yPos >= InvGrids.yInventory) return false;

        Data.coordinates = (Data.coordinates & 0xE3FF) | 0x0000;
        Data.coordinates = (Data.coordinates & 0xFF83) | (xPos << 2);
        Data.coordinates = (Data.coordinates & 0xFE7F) | (yPos << 7);
        return true;
    }
case CNT_STASH:
    {
        if (xPos < 0 || xPos >= InvGrids.xStash) return false;
        if (yPos < 0 || yPos >= InvGrids.yStash) return false;

        Data.coordinates = (Data.coordinates & 0xE3FF) | 0x1000;
        Data.coordinates = (Data.coordinates & 0xFF83) | (xPos << 2);
        Data.coordinates = (Data.coordinates & 0xFE7F) | (yPos << 7);
        return true;
    }
case CNT_CUBE:
    {
        if (xPos < 0 || xPos >= InvGrids.xCube) return false;
        if (yPos < 0 || yPos >= InvGrids.yCube) return false;

        Data.coordinates = (Data.coordinates & 0xE3FF) | 0x0C00;
        Data.coordinates = (Data.coordinates & 0xFF83) | (xPos << 2);
        Data.coordinates = (Data.coordinates & 0xFE7F) | (yPos << 7);
        return true;
    }
}
return true;
}
bool Item104Ear::FindInfo()
{
    Info = &itemunknown;

    for(int z=0;z<nItemInfos;z++)
    {
        // Check Item Code
        if (ItemCode() != ItemInfos[z].IC) continue;

        // Check if Set or Unique Item
        if (ItemInfos[z].ItemSearch != 'N') continue;

        Info = &ItemInfos[z];
    }

    if (!Info || !Info->BitmapID)
    {
        Info = &itemunknown;
        return false;
    }
    return true;
}
HBITMAP Item104Ear::GetBitmap()
{
    if (!Info) FindInfo();

    return ItemInfoGetBitmap(Info);
}
DWORD Item104Ear::ItemCode()
{
    return 'rae';
}
void Item104Ear::SetItemCode(DWORD x)
{
    // No Item Code
}
int Item104Ear::OpponentClass()
{
    return (Data.string[0] & 0x1C) >> 2;
}
void Item104Ear::SetOpponentClass(int x)
{
    Data.string[0] = (Data.string[0] & 0xE3) | ((x % 5) << 2);
}

```

```

}
const char *Item104Ear::OpponentClassString()
{
    int x = OpponentClass();
    if (x >= 0 && x < 5)
        return CharClasses[x];
    else
        return "Error!!!";
}
int Item104Ear::OpponentLevel()
{
    return ((Data.string[0] & 0xE0) >> 5) +
        ((Data.string[1] & 0x1F) << 3);
}
void Item104Ear::SetOpponentLevel(int x)
{
    x %= 100;

    Data.string[0] = (Data.string[0] & 0x1F) | ((x & 0x07) << 5);
    Data.string[1] = (Data.string[1] & 0xE0) | ((x & 0xF8) >> 3);
}
char Item104Ear::OpponentNameChar(int n)
{
    int bitoffset = 13 + n * 7;

    // Get First Part
    int B = bitoffset / 8;
    int V = bitoffset % 8;
    char c = (Data.string[B] >> V) & 0x7F;

    // Get Second Part
    int rest = 8 - V;
    int mask = (0xFF << (V-1)) ^ 0xFF;
    c |= (Data.string[B+1] & mask) << rest;

    return c;
}
void Item104Ear::SetOpponentNameChar(int n,char c)
{
    int bitoffset = 13 + n * 7;

    // Get First Part
    int B = bitoffset / 8;
    int V = bitoffset % 8;
    int mask1 = (0xFF << V) ^ 0xFF;
    Data.string[B] = (Data.string[B] & mask1) | ( ( c << V) & (mask1 ^ 0xFF) );

    int rest = 8 - V;
    int mask2 = 0xFF << (V-1);
    Data.string[B+1] = (Data.string[B+1] & mask2) | ( ( c >> rest) & (mask2 ^ 0xFF) );
}
static char ItemOpponentNameTemp[20];
const char* Item104Ear::OpponentName()
{
    memset(ItemOpponentNameTemp,0,sizeof ItemOpponentNameTemp);

    for(int z=0;z<15;z++)
        ItemOpponentNameTemp[z] = OpponentNameChar(z);

    return ItemOpponentNameTemp;
}
void Item104Ear::SetOpponentName(const char *s)
{
    for(int z=0;z<15;z++)
        SetOpponentNameChar(z,*s++);

    SetOpponentNameChar(15,0);
}
const char* Item104Ear::Name()
{
    sprintf(NameTmp,"%s's Ear",OpponentName());
    return NameTmp;
}
const char* Item104Ear::RichText()
{
    char *s = RichTextTmp;
    StartRTF(s);

    strcat(s,"\\cf0 ",Name(),0);
}

```

```
char buffers[2][64];

// Ear Descriptions
strncat(s, "\\par ", OpponentClassString(), 0);
sprintf(buffers[0], "\\par Level %i", OpponentLevel());
strcat(s, buffers[0]);

strcat(s, "\\par }");

return s;
}
```

```

// Item104Ex.cpp from D2E
// Contains methods for the new extended item structure past 1.03

#include "Jamellad2E.h"

Item104Ex::Item104Ex()
{
    ZeroMemory(&Data,sizeof Data);
    MD = new class MagicDecoder(this);
}
Item104Ex::~Item104Ex()
{
    delete MD;
    if (ListNext) {
        delete ListNext;
        ListNext = 0;
    }
}
bool Item104Ex::LoadItemRecord(BYTE *record)
{
    if (*(record+0) != 'J' && *(record+1) != 'M')
        return false;

    memcpy(&Data,record,sizeof Data);
    Info = 0;
    return true;
}
BYTE* Item104Ex::GetItemRecord()
{
    return (BYTE*) &Data;
}
DWORD Item104Ex::ItemRecordLength()
{
    return sizeof Data;
}
void Item104Ex::BlankItem()
{
    ZeroMemory(&Data,sizeof Data);

    Data.JM[0] = 0x4A;
    Data.JM[1] = 0x4D;
    Data.bitfield1 = 0x0010;
    Data.bitfield2 = 0x0018;
}
int Item104Ex::Container() const
{
    if ((Data.container & 0x07F8) == 0x0000) return CNT_INVENTORY;
    if ((Data.container & 0x07F8) == 0x0020) return CNT_STASH;
    if ((Data.container & 0x07F8) == 0x0018) return CNT_CUBE;
    if ((Data.container & 0x07F8) == 0x07F8) return CNT_BODY;
    return CNT_NONE;
}
int Item104Ex::xPos() const
{
    return (Data.coordinates & 0x3E) >> 1;
}
int Item104Ex::yPos() const
{
    return (Data.coordinates & 0xC0) >> 6;
}
int Item104Ex::xSize()
{
    if (!this && SelInfo) return SelInfo->SizeX;
    if (!this) return 1;

    if (!Info)
        if (!FindInfo())
            return 1;

    return Info->SizeX;
}
int Item104Ex::ySize()
{
    if (!this && SelInfo) return SelInfo->SizeY;
    if (!this) return 1;

    if (!Info)
        if (!FindInfo())
            return 1;
}

```

```

    return Info->SizeY;
}
bool Item104Ex::SetCoordinates(int Container,int xPos,int yPos)
{
    switch(Container)
    {
    default:
        return false;
    case CNT_INVENTORY:
        {
            if (xPos < 0 || xPos >= InvGrids.xInventory) return false;
            if (yPos < 0 || yPos >= InvGrids.yInventory) return false;

            Data.container = (Data.container & 0xF807) | 0x0000;
            Data.coordinates = (Data.coordinates & 0xC1) | (xPos << 1);
            Data.coordinates = (Data.coordinates & 0x3F) | (yPos << 6);

            Data.itemcode &= 0xFFFFFFFF;
            Data.magicrestr &= 0xBFFF;
            return true;
        }
    case CNT_STASH:
        {
            if (xPos < 0 || xPos >= InvGrids.xStash) return false;
            if (yPos < 0 || yPos >= InvGrids.yStash) return false;

            Data.container = (Data.container & 0xF807) | 0x0020;
            Data.coordinates = (Data.coordinates & 0xC1) | (xPos << 1);
            Data.coordinates = (Data.coordinates & 0x3F) | (yPos << 6);

            Data.itemcode &= 0xFFFFFFFF;
            Data.magicrestr &= 0xBFFF;
            return true;
        }
    case CNT_CUBE:
        {
            if (xPos < 0 || xPos >= InvGrids.xCube) return false;
            if (yPos < 0 || yPos >= InvGrids.yCube) return false;

            Data.container = (Data.container & 0xF807) | 0x0018;
            Data.coordinates = (Data.coordinates & 0xC1) | (xPos << 1);
            Data.coordinates = (Data.coordinates & 0x3F) | (yPos << 6);

            Data.itemcode &= 0xFFFFFFFF;
            Data.magicrestr &= 0xBFFF;
            return true;
        }
    case CNT_BODY:
        {
            if (xPos < 1 || xPos > 10) return false;

            Data.container = (Data.container & 0xF807) | 0x07F8;
            Data.coordinates &= 0x01;

            Data.itemcode &= 0xFFFFFFFF;

            Data.bodycode = (Data.bodycode & 0xC3) | ((xPos & 0x0F) << 2);
            Data.magicrestr |= 0x4000;
            return true;
        }
    }
}

bool Item104Ex::FindInfo()
{
    Info = &itemunknown;

    RAND RDWB = { DWB(), 666 };
    StartRandoms(this,&RDWB);
    DWORD DWB0 = Random(&RDWB);

    for(int z=0;z<nItemInfos;z++)
    {
        // Check Item Code
        if (ItemInfos[z].IC == 0xFFFFFFFF) continue;
        if (ItemCode() != ItemInfos[z].IC) continue;

        // Check if Set or Unique Item
    }
}

```

```

switch(ItemInfos[z].ItemSearch)
{
case 'U':
    if (Quality() != UNIQUEITEM) continue;

    // Check Set/Unique Item Class Code
    if (UniqueCode() != ItemInfos[z].UniqueCode) continue;

    break;
case 'S':
    if (Quality() != SETITEM) continue;

    // Check Set/Unique Item Class Code
    if (UniqueCode() != ItemInfos[z].UniqueCode) continue;

    // Get correct set item when there are multiple possibilities
    if (ItemInfos[z].DWBCode != 0)
    {
        int offset = DWB0 % 0x10;
        if (( ItemInfos[z].DWBCode & (1 << offset) ) == 0)
            continue;
    }
    break;
}

Info = &ItemInfos[z];
}

if (!Info || (!Info->BitmapID && Info->IC != ' uma' && Info->IC != ' nir'))
{
    Info = &itemunknown;
    return false;
}
return true;
}
HBITMAP Item104Ex::GetBitmap()
{
    if (!Info) FindInfo();

    // Amulets
    if (ItemCode() == ' uma')
    {
        int x = DWARandomOffset(1) % 3;
        return AmuletImages[x].hBmp;
    }
    // Rings
    if (ItemCode() == ' nir')
    {
        return RingImages[DWARandomOffset(1) % 5].hBmp;
    }

    return ItemInfoGetBitmap(Info);
}

DWORD Item104Ex::ItemCode()
{
    return ((Data.itemcode & 0xFFFFFFFF) >> 2) |
        ((Data.bodycode & 0x0003) << 30);
}

void Item104Ex::SetItemCode(DWORD x)
{
    Data.itemcode = (Data.itemcode & 0x00000003) | ((x << 2) & 0xFFFFFFFF);
    Data.bodycode = (Data.bodycode & 0xF7) | (BYTE(x >> 30) & 0x03);
    Info = 0;
}

int Item104Ex::UniqueCode()
{
    return Data.uniquecode;
}

void Item104Ex::SetUniqueCode(int x)
{
    Data.uniquecode = x;
    Info = 0;
}

int Item104Ex::Quality()
{
    return Data.quantity & 0x000F;
}

void Item104Ex::SetQuality(int x)

```

```

{
    Data.quantity = (Data.quantity & 0xFFFF) | (x & 0x000F);
    Info = 0;
}
int Item104Ex::GemNum()
{
    return ((Data.bodycode & 0x80) >> 7) |
        ((Data.magicrestr & 0x03) << 1);
}
void Item104Ex::SetGemNum(int i)
{
    Data.bodycode = (Data.bodycode & 0x7F) | ((i << 7) & 0x80);
    Data.magicrestr = (Data.magicrestr & 0xFFFC) | ((i >> 1) & 0x03);
}
bool Item104Ex::Socketed()
{
    return (Data.bitfield1 & 0x0800) != 0;
}
void Item104Ex::SetSocketed(bool i)
{
    Data.bitfield1 = (Data.bitfield1 & 0xF7FF) | (i << 11);
}
bool Item104Ex::Socketable()
{
    if (!Info) FindInfo();
    return (Info->Sockets != 0);
}
bool Item104Ex::Identified()
{
    return (Data.bitfield1 & 0x0010) != 0;
}
void Item104Ex::SetIdentified(bool i)
{
    Data.bitfield1 = Data.bitfield1 & 0xFFEF | (i << 4);
}
bool Item104Ex::Starter()
{
    return (Data.bitfield2 & 0x0002) != 0;
}
void Item104Ex::SetStarter(bool i)
{
    Data.bitfield2 = Data.bitfield2 & 0xFFFD | (i << 1);
}
int Item104Ex::Quantity()
{
    return ((Data.quantity & 0xFFE0) >> 5) +
        ((Data.quantityex & 0xFF) << 11);
// return (Data.quantity & 0x1FE0) >> 5;
}
void Item104Ex::SetQuantity(int i)
{
#ifdef JAMELLAEDITOR
    if (!RegOptions.ExceedQuantity) {
        Data.quantity = (Data.quantity & 0xE01F) | ((i & 0x00FF) << 5);
    }
    else {
        Data.quantity = (Data.quantity & 0x001F) | ((i & 0x1FFF) << 5);
        Data.quantityex = (i >> 11);
    }
#else
    Data.quantity = (Data.quantity & 0xE01F) | ((i & 0x00FF) << 5);
#endif
}
int Item104Ex::Durability()
{
    return (Data.durability & 0x01FE) >> 1;
}
void Item104Ex::SetDurability(int i)
{
    if (i > DurabilityMax()) i = DurabilityMax();
    if (i > 255) i = 255;

    Data.durability = (Data.durability & 0xFE01) | ((i & 0xFF) << 1);
}
int Item104Ex::DurabilityMax()
{
    return ((Data.durability & 0xFE00) >> 9) + ((Data.coordinates & 0x01) * 128);
}
void Item104Ex::SetDurabilityMax(int i)

```



```

{
    if (i > 255) i = 255;

    Data.durability = (Data.durability & 0x01FF) | ((i & 0x7F) << 9);
    Data.coordinates = (Data.coordinates & 0xFE) | ( (i & 0x80) ? 0x01 : 0x00 );
}
int Item104Ex::BodyCode()
{
    return (Data.bodycode >> 2) & 0x0F;
}
DWORD Item104Ex::DWA()
{
    return ( (Data.DWB & 0x07) << 29 ) |
        ( (Data.DWA & 0xFFFFFFFF8) >> 3 );
}
void Item104Ex::SetDWA(DWORD x)
{
    Data.DWA = (Data.DWA & 0x00000007) | ( (x & 0xFFFFFFFF) << 3 );
    Data.DWB = (Data.DWB & 0xFFFFFFFF8) | ( (x & 0xE0000000) >> 29 );
}
DWORD Item104Ex::DWB()
{
    return ( (Data.container & 0x07) << 29 ) |
        ( (Data.DWB & 0xFFFFFFFF8) >> 3 );
}
void Item104Ex::SetDWB(DWORD x)
{
    Data.container = (Data.container & 0xFFF8) | BYTE( (x & 0xE0000000) >> 29 );
    Data.DWB = (Data.DWB & 0x00000007) | ( (x & 0xFFFFFFFF) << 3 );
}
int Item104Ex::MagicLevel()
{
    return (Data.magicrestr & 0x03FC) >> 2;
}
void Item104Ex::SetMagicLevel(int x)
{
    Data.magicrestr = (Data.magicrestr & 0xFC03) | ((x & 0xFF) << 2);
}

```

```

// Item104Sm.cpp from D2E
// Contains methods for the new short item structure past 1.03

#include "JamellaD2E.h"

Item104Sm::Item104Sm()
{
    ZeroMemory(&Data,sizeof Data);
}
Item104Sm::~Item104Sm()
{
    if (ListNext) {
        delete ListNext;
        ListNext = 0;
    }
}
bool Item104Sm::LoadItemRecord(BYTE *record)
{
    if (*(record+0) != 'J' && *(record+1) != 'M')
        return false;

    memcpy(&Data,record,sizeof Data);
    Info = 0;
    return true;
}
BYTE* Item104Sm::GetItemRecord()
{
    return (BYTE*) &Data;
}
DWORD Item104Sm::ItemRecordLength()
{
    return sizeof Data;
}
void Item104Sm::BlankItem()
{
    ZeroMemory(&Data,sizeof Data);

    Data.JM[0] = 0x4A;
    Data.JM[1] = 0x4D;
    Data.bitfield1 = 0x0010;
    Data.bitfield2 = 0x0038;
}
int Item104Sm::Container() const
{
    if ((Data.coordinates & 0xFC01) == 0x0000 && (Data.itemcode & 0x00000003) == 0x00) return CNT_INVENTORY;
    if ((Data.coordinates & 0xFC01) == 0x1000 && (Data.itemcode & 0x00000003) == 0x00) return CNT_STASH;
    if ((Data.coordinates & 0xFC01) == 0x0C00 && (Data.itemcode & 0x00000003) == 0x00) return CNT_CUBE;
    if ((Data.coordinates & 0xFC01) == 0xFC01 && (Data.itemcode & 0x00000003) == 0x03) return CNT_BELT;
    return CNT_NONE;
}
int Item104Sm::xPos() const
{
    switch(Container())
    {
    default:
        return 0;
    case CNT_INVENTORY:
    case CNT_STASH:
    case CNT_CUBE:
        return (Data.coordinates & 0x007C) >> 2;
    case CNT_BELT:
        return (Data.coordinates & 0x000C) >> 2;
    }
}
int Item104Sm::yPos() const
{
    switch(Container())
    {
    default:
        return 0;
    case CNT_INVENTORY:
    case CNT_STASH:
    case CNT_CUBE:
        return (Data.coordinates & 0x0180) >> 7;
    case CNT_BELT:
        return 3 - ((Data.coordinates & 0x0030) >> 4);
    }
}
int Item104Sm::xSize()

```

```

{
    if (!this && SelInfo) return SelInfo->SizeX;
    if (!this) return 1;

    if (!Info)
        if (!FindInfo())
            return 1;

    return Info->SizeX;
}
int Item104Sm::ySize()
{
    if (!this && SelInfo) return SelInfo->SizeY;
    if (!this) return 1;

    if (!Info)
        if (!FindInfo())
            return 1;

    return Info->SizeY;
}
bool Item104Sm::SetCoordinates(int Container,int xPos,int yPos)
{
    switch(Container)
    {
    default:
        return false;
    case CNT_INVENTORY:
        {
            if (xPos < 0 || xPos >= InvGrids.xInventory) return false;
            if (yPos < 0 || yPos >= InvGrids.yInventory) return false;

            Data.coordinates = (Data.coordinates & 0x03FE) | 0x0000;
            Data.coordinates = (Data.coordinates & 0xFF83) | (xPos << 2);
            Data.coordinates = (Data.coordinates & 0xFE7F) | (yPos << 7);

            Data.itemcode &= 0xFFFFFFFF;
            return true;
        }
    case CNT_STASH:
        {
            if (xPos < 0 || xPos >= InvGrids.xStash) return false;
            if (yPos < 0 || yPos >= InvGrids.yStash) return false;

            Data.coordinates = (Data.coordinates & 0x03FE) | 0x1000;
            Data.coordinates = (Data.coordinates & 0xFF83) | (xPos << 2);
            Data.coordinates = (Data.coordinates & 0xFE7F) | (yPos << 7);

            Data.itemcode &= 0xFFFFFFFF;
            return true;
        }
    case CNT_CUBE:
        {
            if (xPos < 0 || xPos >= InvGrids.xCube) return false;
            if (yPos < 0 || yPos >= InvGrids.yCube) return false;

            Data.coordinates = (Data.coordinates & 0x03FE) | 0x0C00;
            Data.coordinates = (Data.coordinates & 0xFF83) | (xPos << 2);
            Data.coordinates = (Data.coordinates & 0xFE7F) | (yPos << 7);

            Data.itemcode &= 0xFFFFFFFF;
            return true;
        }
    case CNT_BELT:
        {
            if (xPos < 0 || xPos >= InvGrids.xBelt) return false;
            if (yPos < 0 || yPos >= InvGrids.yBelt) return false;

            Data.coordinates = (Data.coordinates & 0x03FE) | 0xFC01;
            Data.coordinates = (Data.coordinates & 0xFFF3) | (xPos << 2);
            Data.coordinates = (Data.coordinates & 0xFFCF) | ((3-yPos) << 4);

            Data.itemcode |= 0x00000003;
            return true;
        }
    case CNT_SOCKET:
        {
            if (xPos < 0 || xPos >= 7) return false;

```

```

        Data.coordinates = (Data.coordinates & 0x03E0) | 0xFC1B;
        Data.coordinates = (Data.coordinates & 0xFC7F) | (xPos << 7);

        Data.itemcode |= 0x00000003;
        return true;
    }
}
}
bool Item104Sm::FindInfo()
{
    Info = &itemunknown;

    for(int z=0;z<nItemInfos;z++)
    {
        // Check Item Code
        if (ItemInfos[z].IC == 0xFFFFFFFF) continue;
        if (ItemCode() != ItemInfos[z].IC) continue;

        Info = &ItemInfos[z];
    }

    if (!Info || !Info->BitmapID)
    {
        Info = &itemunknown;
        return false;
    }
    return true;
}
HBITMAP Item104Sm::GetBitmap()
{
    if (!Info) FindInfo();

    return ItemInfoGetBitmap(Info);
}
bool Item104Sm::FindGemInfo()
{
    GInfo = 0;
    for(int z=0;z<nGemInfos;z++)
    {
        // Check Item Code
        if (ItemCode() != GemInfos[z].IC) continue;
        GInfo = &GemInfos[z];
        return true;
    }
    return false;
}
DWORD Item104Sm::ItemCode()
{
    return ( (Data.itemcode & 0xFFFFFFFF) >> 2 ) |
           ( (Data.zero & 0x03) << 30 );
}
void Item104Sm::SetItemCode(DWORD x)
{
    Data.itemcode = (Data.itemcode & 0x00000003) | ((x << 2) & 0xFFFFFFFF);
    Data.zero = (Data.zero & 0xF7) | (BYTE(x >> 30) & 0x03);
    Info = 0;
}
const char* Item104Sm::RichText()
{
    char *s = RichTextTmp;
    StartRTF(s);

    strmcat(s, "\\cf0 ", Name(), 0);

    if (Info->Description)
    {
        strmcat(s, "\\par\\cf0 ", Info->Description, 0);
    }

    strcat(s, "\\par }");

    return s;
}

```

```
#include "JamellaD2E.h"
```

```
struct ItemInfo itemunknown =
```

```
{ "Unknown Item", 'X', 0, "Unknown Item", 0x0000, 0x0, 0, 'N', 0xFFFFFFFF, 0, IDB_ITEM_UNKNOWN, 0, 0, 0, 0x0, 1, 1, 0, ' ', 0, 0, 0, 0, 0, 0, 0, 0, 0, 100, 0, 0, 0, 0 };
```

```
struct ItemInfo ItemInfos[] = {
```

```
{ "Hand Axe", 'N', 0, "Weapon Axe", 0x0000, 0x0, 0, 'N', 0x20786168, 0, IDB_ITEM_HANDAXE, 1102, 2, 16, 0xB, 1, 3, 4, ' ', 28, 0, 0, 0, 1, 3, 6, 3, 6, 0, 0, 100, 0, 0, 2, 'W', 0, 0 },
{ "The Gnasher", 'U', "Hand Axe", "Weapon Axe", 0x0000, 0x00, 0, 'U', 0x20786168, 0, IDB_ITEM_THEGNASHER, 1202, 0, 0, 0xB, 1, 3, 4, ' ', 14, 0, 0, 0, 0, 1, 3, 6, 3, 6, 0, 0, 100, 0, 0, 2, 'W', 0, 0 },
{ "Axe", 'N', 0, "Weapon Axe", 0x0010, 0x0, 0, 'N', 0x20657861, 0, IDB_ITEM_AXE, 1102, 2, 16, 0xB, 2, 3, 4, ' ', 24, 32, 0, 0, 1, 3, 11, 3, 11, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "Deathspade", 'U', "Axe", "Weapon Axe", 0x0010, 0x02, 0, 'U', 0x20657861, 0, IDB_ITEM_DEATHSPADE, 1202, 0, 0, 0xB, 2, 3, 4, ' ', 120, 32, 0, 0, 1, 3, 11, 3, 11, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "Double Axe", 'N', 0, "Weapon Axe", 0x0020, 0x0, 0, 'N', 0x20786132, 0, IDB_ITEM_DOUBLEAXE, 1102, 2, 16, 0xF, 2, 3, 4, ' ', 24, 43, 0, 0, 1, 5, 12, 5, 12, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "Berserker's Hatchet", 'S', "Double Axe", "Weapon Axe", 0x0020, 0x16, 0, 'S', 0x20786132, 0, IDB_ITEM_BERSERKERSHATCHET, 20004, 0, 0, 0xF, 2, 3, 4, ' ', 48, 43, 0, 0, 1, 5, 12, 5, 12, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "Bladebone", 'U', "Double Axe", "Weapon Axe", 0x0020, 0x04, 0, 'U', 0x20786132, 0, IDB_ITEM_DOUBLEAXE, 1202, 0, 0, 0xF, 2, 3, 4, ' ', 120, 43, 0, 0, 1, 5, 12, 5, 12, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "Military Pick", 'N', 0, "Weapon Axe", 0x0030, 0x0, 0, 'N', 0x2069706D, 0, IDB_ITEM_MILITARYPICK, 1102, 2, 16, 0xF, 2, 3, 4, ' ', 26, 49, 3, 0, 1, 6, 10, 6, 10, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "Tancred's Crowbill", 'S', "Military Pick", "Weapon Axe", 0x0030, 0x10, 0, 'S', 0x2069706D, 0, IDB_ITEM_TANCREDCROWBILL, 20015, 0, 0, 0xF, 2, 3, 4, ' ', 52, 49, 33, 0, 1, 6, 10, 6, 10, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "Mindrend", 'U', "Military Pick", "Weapon Axe", 0x0030, 0x06, 0, 'U', 0x2069706D, 0, IDB_ITEM_MINDREND, 1202, 0, 0, 0xF, 2, 3, 4, ' ', 13, 0, 49, 33, 0, 1, 6, 10, 6, 10, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "War Axe", 'N', 0, "Weapon Axe", 0x0040, 0x0, 0, 'N', 0x20786177, 0, IDB_ITEM_WARAXE, 1102, 2, 16, 0xB, 2, 3, 4, ' ', 26, 67, 0, 0, 1, 8, 14, 8, 14, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "Rakescar", 'U', "War Axe", "Weapon Axe", 0x0040, 0x08, 0, 'U', 0x20786177, 0, IDB_ITEM_RAKESCAR, 1202, 0, 0, 0xB, 2, 3, 4, ' ', 130, 67, 0, 0, 1, 8, 14, 8, 14, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "Large Axe", 'N', 0, "Weapon Axe", 0x0050, 0x0, 0, 'N', 0x2078616C, 0, IDB_ITEM_LARGEAXE, 1102, 2, 16, 0xB, 2, 3, 4, ' ', 30, 85, 0, 0, 2, 6, 13, 6, 13, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "Axe of Fechmar", 'U', "Large Axe", "Weapon Axe", 0x0050, 0x0A, 0, 'U', 0x2078616C, 0, IDB_ITEM_FECHMARSAXE, 1202, 0, 0, 0xB, 2, 3, 4, ' ', 150, 85, 0, 0, 2, 6, 13, 6, 13, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "Broad Axe", 'N', 0, "Weapon Axe", 0x0060, 0x0, 0, 'N', 0x20786162, 0, IDB_ITEM_BROADAXE, 1102, 2, 16, 0xB, 2, 3, 4, ' ', 35, 48, 0, 0, 2, 9, 17, 10, 18, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "Goreshovvel", 'U', "Broad Axe", "Weapon Axe", 0x0060, 0x0C, 0, 'U', 0x20786162, 0, IDB_ITEM_GORESHOVEL, 1202, 0, 0, 0xB, 2, 3, 4, ' ', 17, 5, 48, 0, 0, 2, 9, 17, 10, 18, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "Battle Axe", 'N', 0, "Weapon Axe", 0x0070, 0x0, 0, 'N', 0x20787462, 0, IDB_ITEM_BATTLEAXE, 1102, 2, 16, 0xB, 2, 3, 4, ' ', 40, 54, 0, 0, 2, 10, 28, 12, 28, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "The Chieftan", 'U', "Battle Axe", "Weapon Axe", 0x0070, 0x0E, 0, 'U', 0x20787462, 0, IDB_ITEM_THECHIEFTAN, 1202, 0, 0, 0xB, 2, 3, 4, ' ', 200, 54, 0, 0, 2, 10, 28, 12, 28, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "Great Axe", 'N', 0, "Weapon Axe", 0x0080, 0x0, 0, 'N', 0x20786167, 0, IDB_ITEM_GREATAXE, 1102, 2, 16, 0xB, 2, 4, 4, ' ', 50, 63, 39, 0, 2, 6, 24, 8, 26, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "Brainhew", 'U', "Great Axe", "Weapon Axe", 0x0080, 0x10, 0, 'U', 0x20786167, 0, IDB_ITEM_BRAINHEW, 1202, 0, 0, 0xB, 2, 4, 4, ' ', 250, 63, 39, 0, 2, 6, 24, 8, 26, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "Giant Axe", 'N', 0, "Weapon Axe", 0x0090, 0x0, 0, 'N', 0x20786967, 0, IDB_ITEM_GIANTAXE, 1102, 2, 16, 0xB, 2, 3, 4, ' ', 50, 70, 0, 0, 2, 26, 38, 26, 38, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "The Humongous", 'U', "Giant Axe", "Weapon Axe", 0x0090, 0x12, 0, 'U', 0x20786967, 0, IDB_ITEM_THEHUMONGOUS, 1202, 0, 0, 0xB, 2, 3, 4, ' ', 250, 84, 0, 0, 2, 26, 38, 26, 38, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "Wand", 'N', 0, "Weapon Wand", 0x00A0, 0x0, 0, 'N', 0x20646E77, 0, IDB_ITEM_WAND, 1111, 32, 256, 0xB, 1, 2, 4, 'N', 15, 0, 0, 0, 1, 2, 4, 2, 4, 0, 0, 100, 0, 0, 0, ' ', 0, 0 },
{ "Iro's Torch", 'U', "Wand", "Weapon Wand", 0x00A0, 0x14, 0, 'U', 0x20646E77, 0, IDB_ITEM_IROSTORCH, 1209, 0, 0, 0xB, 1, 2, 4, ' ', 75, 0, 0, 0, 1, 2, 4, 2, 4, 0, 0, 100, 0, 0, 0, ' ', 0, 0 },
{ "Yew Wand", 'N', 0, "Weapon Wand", 0x00B0, 0x0, 0, 'N', 0x206E7779, 0, IDB_ITEM_YEWWAND, 1111, 32, 256, 0xB, 1, 2, 4, 'N', 15, 0, 0, 0, 1, 2, 8, 2, 8, 0, 0, 100, 0, 0, 0, ' ', 0, 0 },
{ "Maelstromwrath", 'U', "Yew Wand", "Weapon Wand", 0x00B0, 0x16, 0, 'U', 0x206E7779, 0, IDB_ITEM_MAELOSTROMWRATH, 1209, 0, 0, 0xB, 1, 2, 4, ' ', 75, 0, 0, 0, 1, 2, 8, 2, 8, 0, 0, 100, 0, 0, 0, ' ', 0, 0 },
{ "Bone Wand", 'N', 0, "Weapon Wand", 0x00C0, 0x0, 0, 'N', 0x206E7762, 0, IDB_ITEM_BONEWAND, 1111, 32, 256, 0xB, 1, 2, 4, 'N', 15, 0, 0, 0, 1, 3, 7, 3, 7, 0, 0, 100, 0, 0, 0, ' ', 0, 0 },
{ "Gravenspine", 'U', "Bone Wand", "Weapon Wand", 0x00C0, 0x18, 0, 'U', 0x206E7762, 0, IDB_ITEM_GRAVENSPINE, 1209, 0, 0, 0xB, 1, 2, 4, ' ', 75, 0, 0, 0, 1, 3, 7, 3, 7, 0, 0, 100, 0, 0, 0, ' ', 0, 0 },
{ "Grim Wand", 'N', 0, "Weapon Wand", 0x00D0, 0x0, 0, 'N', 0x206E7767, 0, IDB_ITEM_GRIMWAND, 1111, 32, 256, 0xF, 1, 2, 4, 'N', 15, 0, 0, 0, 1, 5, 11, 5, 11, 0, 0, 100, 0, 0, 0, ' ', 0, 0 },
{ "Infernal Torch", 'S', "Grim Wand", "Weapon Wand", 0x00D0, 0x14, 0, 'S', 0x206E7767, 0, IDB_ITEM_INFERNALTORCH, 20010, 0, 0, 0xF, 1, 2, 4, ' ', 30, 0, 0, 0, 1, 5, 11, 5, 11, 0, 0, 100, 0, 0, 0, ' ', 0, 0 },
{ "Ume's Lament", 'U', "Grim Wand", "Weapon Wand", 0x00D0, 0x1A, 0, 'U', 0x206E7767, 0, IDB_ITEM_UMESLAMMENT, 1209, 0, 0, 0xF, 1, 2, 4, ' ', 75, 0, 0, 0, 1, 5, 11, 5, 11, 0, 0, 100, 0, 0, 0, ' ', 0, 0 },
{ "Club", 'N', 0, "Weapon Mace", 0x00E0, 0x0, 0, 'N', 0x20626C63, 0, IDB_ITEM_CLUB, 1103, 2, 32, 0xB, 1, 3, 4, ' ', 24, 0, 0, 0, 1, 1, 6, 1, 6, 0, 0, 150, 0, 0, 2, 'W', 0, 0 },
{ "Felloak", 'U', "Club", "Weapon Mace", 0x00E0, 0x1C, 0, 'U', 0x20626C63, 0, IDB_ITEM_FELLOAK, 1203, 0, 0, 0xB, 1, 3, 4, ' ', 120, 0, 0, 0, 1, 1, 6, 1, 6, 0, 0, 150, 0, 0, 2, 'W', 0, 0 },
{ "Scepter", 'N', 0, "Weapon Scepter", 0x00F0, 0x0, 0, 'N', 0x20706373, 0, IDB_ITEM_SCEPTER, 1112, 16, 128, 0xB, 1, 3, 4, 'P', 50, 25, 0, 0, 1, 5, 8, 5, 8, 0, 0, 150, 0, 0, 2, 'W', 0, 0 },
{ "Knell Striker", 'U', "Scepter", "Weapon Scepter", 0x00F0, 0x1E, 0, 'U', 0x20706373, 0, IDB_ITEM_KNELLSTRIKER, 1210, 0, 0, 0xB, 1, 3, 4, ' ', 250, 25, 0, 0, 1, 5, 8, 5, 8, 0, 0, 150, 0, 0, 2, 'W', 0, 0 },
{ "Grand Scepter", 'N', 0, "Weapon Scepter", 0x0100, 0x0, 0, 'N', 0x20637367, 0, IDB_ITEM_GRANDSCEPTER, 1112, 16, 128, 0xF, 1, 3, 4, 'P', 6, 0, 37, 0, 0, 1, 6, 11, 6, 11, 0, 0, 150, 0, 0, 2, 'W', 0, 0 },
```

```

{ "Civerb's Cudgel", 'S', "Grand Scepter", "Weapon Scepter", 0x0100, 0x00, 0, 'S', 0x20637367, 0, IDB_ITEM_CIVERBSCUDGEL, 20006, 0, 0, 0xF, 1, 3, 4, ' ', 120, 37, 0, 0, 1, 6, 11, 6, 11, 0, 0, 150, 0, 0, 2, 'W', 0, 0 },
{ "Rusthandle", 'U', "Grand Scepter", "Weapon Scepter", 0x0100, 0x20, 0, 'U', 0x20637367, 0, IDB_ITEM_RUSTHANDLE, 1210, 0, 0, 0xF, 1, 3, 4, ' ', 255, 37, 0, 0, 1, 6, 11, 6, 11, 0, 0, 150, 0, 0, 2, 'W', 0, 0 },
{ "War Scepter", 'N', 0, "Weapon Scepter", 0x0110, 0x0, 0, 'N', 0x20707377, 0, IDB_ITEM_WARSCEPTER, 1112, 16, 128, 0xF, 2, 3, 4, 'P', 70, 55, 0, 0, 1, 7, 14, 7, 14, 0, 0, 150, 0, 0, 2, 'W', 0, 0 },
{ "Milabrega's Rod", 'S', "War Scepter", "Weapon Scepter", 0x0110, 0x0C, 0, 'S', 0x20707377, 0, IDB_ITEM_MILABREGASROD, 20013, 0, 0, 0xF, 2, 3, 4, ' ', 140, 55, 0, 0, 1, 7, 14, 7, 14, 0, 0, 150, 0, 0, 2, 'W', 0, 0 },
{ "Stormeye", 'U', "War Scepter", "Weapon Scepter", 0x0110, 0x22, 0, 'U', 0x20707377, 0, IDB_ITEM_WARSCEPTER, 1210, 0, 0, 0xF, 2, 3, 4, ' ', 255, 55, 0, 0, 1, 7, 14, 7, 14, 0, 0, 150, 0, 0, 2, 'W', 0, 0 },
{ "Spiked Club", 'N', 0, "Weapon Mace", 0x0120, 0x0, 0, 'N', 0x20637073, 0, IDB_ITEM_SPIKEDCLUB, 1103, 2, 32, 0xB, 1, 3, 4, ' ', 36, 0, 0, 0, 1, 5, 6, 5, 6, 0, 0, 150, 0, 0, 2, 'W', 0, 0 },
{ "Stoutnail", 'U', "Spiked Club", "Weapon Mace", 0x0120, 0x24, 0, 'U', 0x20637073, 0, IDB_ITEM_STOUTNAIL, 1203, 0, 0, 0xB, 1, 3, 4, ' ', 180, 0, 0, 0, 1, 5, 6, 5, 6, 0, 0, 150, 0, 0, 2, 'W', 0, 0 },
{ "Mace", 'N', 0, "Weapon Mace", 0x0130, 0x0, 0, 'N', 0x2063616D, 0, IDB_ITEM_MACE, 1103, 2, 32, 0xB, 1, 3, 4, ' ', 60, 27, 0, 0, 1, 3, 10, 3, 10, 0, 150, 0, 0, 2, 'W', 0, 0 },
{ "Crushflange", 'U', "Mace", "Weapon Mace", 0x0130, 0x26, 0, 'U', 0x2063616D, 0, IDB_ITEM_CRUSHFLANGE, 1203, 0, 0, 0xB, 1, 3, 4, ' ', 255, 27, 0, 0, 1, 3, 10, 3, 10, 0, 0, 150, 0, 0, 2, 'W', 0, 0 },
{ "Morning Star", 'N', 0, "Weapon Mace", 0x0140, 0x0, 0, 'N', 0x2074736D, 0, IDB_ITEM_MORNINGSTAR, 1103, 2, 32, 0xB, 1, 3, 4, ' ', 72, 36, 0, 0, 1, 5, 12, 5, 12, 0, 0, 150, 0, 0, 2, 'W', 0, 0 },
{ "Bloodrise", 'U', "Morning Star", "Weapon Mace", 0x0140, 0x28, 0, 'U', 0x2074736D, 0, IDB_ITEM_BLOODRISE, 1203, 0, 0, 0xB, 1, 3, 4, ' ', 255, 36, 0, 0, 1, 5, 12, 5, 12, 0, 0, 150, 0, 0, 2, 'W', 0, 0 },
{ "Flail", 'N', 0, "Weapon Mace", 0x0150, 0x0, 0, 'N', 0x20616C66, 0, IDB_ITEM_FLAIL, 1103, 2, 32, 0xB, 2, 3, 4, ' ', 30, 41, 35, 0, 1, 1, 15, 1, 1, 5, 0, 0, 150, 0, 0, 3, 'W', 0, 0 },
{ "The General's Tan Do Li Ga", 'U', "Flail", "Weapon Mace", 0x0150, 0x2A, 0, 'U', 0x20616C66, 0, IDB_ITEM_THEGENERALSTANDOLIGA, 1203, 0, 0, 0xB, 2, 3, 4, ' ', 197, 41, 35, 0, 1, 1, 15, 1, 15, 0, 0, 150, 0, 0, 3, 'W', 0, 0 },
{ "War Hammer", 'N', 0, "Weapon Mace", 0x0160, 0x0, 0, 'N', 0x206D6877, 0, IDB_ITEM_WARHAMMER, 1103, 2, 32, 0xB, 2, 3, 4, ' ', 55, 53, 0, 0, 1, 11, 20, 11, 20, 0, 0, 150, 0, 0, 3, 'W', 0, 0 },
{ "Ironstone", 'U', "War Hammer", "Weapon Mace", 0x0160, 0x2C, 0, 'U', 0x206D6877, 0, IDB_ITEM_IRONSTONE, 1203, 0, 0, 0xB, 2, 3, 4, ' ', 255, 53, 0, 0, 1, 11, 20, 11, 20, 0, 0, 150, 0, 0, 3, 'W', 0, 0 },
{ "Maul", 'N', 0, "Weapon Mace", 0x0170, 0x0, 0, 'N', 0x2075616D, 0, IDB_ITEM_MAUL, 1103, 2, 32, 0xB, 2, 4, 4, ' ', 60, 69, 0, 0, 2, 1, 1, 30, 40, 0, 0, 150, 0, 0, 3, 'W', 0, 0 },
{ "Bonesnap", 'U', "Maul", "Weapon Mace", 0x0170, 0x2E, 0, 'U', 0x2075616D, 0, IDB_ITEM_BONESNAP, 1203, 0, 0, 0xB, 2, 4, 4, ' ', 255, 69, 0, 0, 2, 1, 1, 30, 40, 0, 0, 150, 0, 0, 3, 'W', 0, 0 },
{ "Great Maul", 'N', 0, "Weapon Mace", 0x0180, 0x0, 0, 'N', 0x20616D67, 0, IDB_ITEM_GREATMAUL, 1103, 2, 32, 0xB, 2, 3, 4, ' ', 60, 99, 0, 0, 2, 1, 1, 35, 55, 0, 0, 150, 0, 0, 3, 'W', 0, 0 },
{ "Steeldriver", 'U', "Great Maul", "Weapon Mace", 0x0180, 0x30, 0, 'U', 0x20616D67, 0, IDB_ITEM_STEELDRIVER, 1203, 0, 0, 0xB, 2, 3, 4, ' ', 255, 50, 0, 0, 2, 1, 1, 35, 55, 0, 0, 150, 0, 0, 3, 'W', 0, 0 },
{ "Short Sword", 'N', 0, "Weapon Sword", 0x0190, 0x0, 0, 'N', 0x20647373, 0, IDB_ITEM_SHORTSWORD, 1101, 2, 8, 0xB, 1, 3, 4, ' ', 24, 0, 0, 0, 1, 2, 7, 2, 7, 0, 0, 100, 0, 0, 2, 'W', 0, 0 },
{ "Rixot's Keen", 'U', "Short Sword", "Weapon Sword", 0x0190, 0x32, 0, 'U', 0x20647373, 0, IDB_ITEM_RIXOTSKEEN, 1201, 0, 0, 0xB, 1, 3, 4, ' ', 120, 0, 0, 0, 1, 2, 7, 2, 7, 0, 0, 100, 0, 0, 2, 'W', 0, 0 },
{ "Scimitar", 'N', 0, "Weapon Sword", 0x01A0, 0x0, 0, 'N', 0x206D6373, 0, IDB_ITEM_SCIMITAR, 1101, 2, 8, 0xB, 1, 3, 4, ' ', 22, 0, 21, 0, 1, 2, 6, 2, 6, 0, 0, 100, 0, 0, 2, 'W', 0, 0 },
{ "Blood Crescent", 'U', "Scimitar", "Weapon Sword", 0x01A0, 0x34, 0, 'U', 0x206D6373, 0, IDB_ITEM_BLOODCRESCENT, 1201, 0, 0, 0xB, 1, 3, 4, ' ', 110, 0, 21, 0, 1, 2, 6, 2, 6, 0, 0, 100, 0, 0, 2, 'W', 0, 0 },
{ "Sabre", 'N', 0, "Weapon Sword", 0x01B0, 0x0, 0, 'N', 0x20726273, 0, IDB_ITEM_SABRE, 1101, 2, 8, 0xF, 1, 3, 4, ' ', 32, 25, 25, 0, 1, 3, 8, 3, 8, 0, 0, 100, 0, 0, 2, 'W', 0, 0 },
{ "Angelical Sickle", 'S', "Sabre", "Weapon Sword", 0x01B0, 0x1A, 0, 'S', 0x20726273, 0, IDB_ITEM_SABRE, 20001, 0, 0, 0xF, 1, 3, 4, ' ', 64, 25, 25, 0, 1, 3, 8, 3, 8, 0, 0, 100, 0, 0, 2, 'W', 0, 0 },
{ "Krintizs Skewer", 'U', "Sabre", "Weapon Sword", 0x01B0, 0x36, 0, 'U', 0x20726273, 0, IDB_ITEM_KRINTIZSSKEWER, 1201, 0, 0, 0xF, 1, 3, 4, ' ', 160, 25, 25, 0, 1, 3, 8, 3, 8, 0, 0, 100, 0, 0, 2, 'W', 0, 0 },
{ "Falchion", 'N', 0, "Weapon Sword", 0x01C0, 0x0, 0, 'N', 0x20636C66, 0, IDB_ITEM_FALCHION, 1101, 2, 8, 0xB, 1, 3, 4, ' ', 32, 33, 0, 0, 1, 7, 1, 5, 7, 15, 0, 0, 100, 0, 0, 2, 'W', 0, 0 },
{ "Gleamscythe", 'U', "Falchion", "Weapon Sword", 0x01C0, 0x38, 0, 'U', 0x20636C66, 0, IDB_ITEM_GLEAMSCYTHE, 1201, 0, 0, 0xB, 1, 3, 4, ' ', 160, 33, 0, 0, 1, 7, 15, 7, 15, 0, 0, 100, 0, 0, 2, 'W', 0, 0 },
{ "Crystal Sword", 'N', 0, "Weapon Sword", 0x01D0, 0x0, 0, 'N', 0x20737263, 0, IDB_ITEM_CRYSTALSWORD, 1101, 2, 8, 0xB, 2, 3, 4, ' ', 10, 43, 0, 0, 1, 5, 15, 5, 15, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "Azurewrath", 'U', "Crystal Sword", "Weapon Sword", 0x01D0, 0x3A, 0, 'U', 0x20737263, 0, IDB_ITEM_AZUREWRATH, 1201, 0, 0, 0xB, 2, 3, 4, ' ', 50, 43, 0, 0, 1, 5, 15, 5, 15, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "Broad Sword", 'N', 0, "Weapon Sword", 0x01E0, 0x0, 0, 'N', 0x20647362, 0, IDB_ITEM_BROADSWORD, 1101, 2, 8, 0xF, 2, 3, 4, ' ', 32, 48, 0, 0, 1, 7, 14, 7, 14, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "Isenhart's Lightbrand", 'S', "Broad Sword", "Weapon Sword", 0x01E0, 0x08, 0, 'S', 0x20647362, 0, IDB_ITEM_ISENHARTSLIGHTBRAND, 20012, 0, 0, 0xF, 2, 3, 4, ' ', 64, 48, 0, 0, 1, 7, 14, 7, 14, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "Griswold's Edge", 'U', "Broad Sword", "Weapon Sword", 0x01E0, 0x3C, 0, 'U', 0x20647362, 0, IDB_ITEM_GRISWOLDSEDGE, 1201, 0, 0, 0xF, 2, 3, 4, ' ', 160, 48, 0, 0, 1, 7, 14, 7, 14, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "Long Sword", 'N', 0, "Weapon Sword", 0x01F0, 0x0, 0, 'N', 0x2064736C, 0, IDB_ITEM_LONGSWORD, 1101, 2, 8, 0xF, 2, 3, 4, ' ', 44, 55, 39, 0, 1, 3, 19, 3, 19, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "Cleglaw's Tooth", 'S', "Long Sword", "Weapon Sword", 0x01F0, 0x04, 0, 'S', 0x2064736C, 0, IDB_ITEM_CLEGLAWSTOOTH, 20007, 0, 0, 0xF, 2, 3, 4, ' ', 88, 55, 39, 0, 1, 3, 19, 3, 19, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "Hellplague", 'U', "Long Sword", "Weapon Sword", 0x01F0, 0x3E, 0, 'U', 0x2064736C, 0, IDB_ITEM_HELLPLAGUE, 1201, 0, 0, 0xF, 2, 3, 4, ' ', 220, 55, 39, 0, 1, 3, 19, 3, 19, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "War Sword", 'N', 0, "Weapon Sword", 0x0200, 0x0, 0, 'N', 0x20647377, 0, IDB_ITEM_WARSWORD, 1101, 2, 8, 0xF, 1, 3, 4, ' ', 44, 71, 45, 0, 1, 8, 20, 8, 20, 0, 0, 100, 0, 0, 2, 'W', 0, 0 },
{ "Death's Touch", 'S', "War Sword", "Weapon Sword", 0x0200, 0x18, 0, 'S', 0x20647377, 0, IDB_ITEM_DEATHSTOUCH, 20008, 0, 0, 0xF, 1, 3, 4, ' ', 88, 71, 45, 0, 1, 8, 20, 8, 20, 0, 0, 100, 0, 0, 2, 'W', 0, 0 },
{ "Culwen's Point", 'U', "War Sword", "Weapon Sword", 0x0200, 0x40, 0, 'U', 0x20647377, 0, IDB_ITEM_WARSWORD, 1201, 0, 0, 0xF, 1, 3, 4, ' ', 220, 71, 45, 0, 1, 8, 20, 8, 20, 0, 0, 100, 0, 0, 2, 'W', 0, 0 },
{ "Two Handed Sword", 'N', 0, "Weapon Sword", 0x0210, 0x0, 0, 'N', 0x20736832, 0, IDB_ITEM_2HSWORD, 1101, 2, 8, 0xB, 1, 4, 4, ' ', 44, 35, 27

```

```

,0,2,2,9,8,17,0,0,100,0,0,3,'W',0,0 } ,
{ "Shadowfang", 'U', "Two Handed Sword", "Weapon Sword", 0x0210, 0x42, 0, 'U', 0x20736832, 0, IDB_ITEM_SHADOWFANG, 1201, 0, 0, 0xB, 1, 4, 4, ' ', 220, 35, 27, 0, 2, 2, 9, 8, 17, 0, 0, 100, 0, 0, 3, 'W', 0, 0 } ,
{ "Claymore", 'N', 0, "Weapon Sword", 0x0220, 0x0, 0, 'N', 0x206D6C63, 0, IDB_ITEM_CLAYMORE, 1101, 2, 8, 0xB, 1, 4, 4, ' ', 50, 47, 0, 0, 2, 5, 12, 13, 30, 0, 0, 100, 0, 0, 3, 'W', 0, 0 } ,
{ "Soulflay", 'U', "Claymore", "Weapon Sword", 0x0220, 0x44, 0, 'U', 0x206D6C63, 0, IDB_ITEM_SOULFLAY, 1201, 0, 0, 0xB, 1, 4, 4, ' ', 250, 47, 0, 0, 2, 5, 12, 13, 30, 0, 0, 100, 0, 0, 3, 'W', 0, 0 } ,
{ "Giant Sword", 'N', 0, "Weapon Sword", 0x0230, 0x0, 0, 'N', 0x20736967, 0, IDB_ITEM_GIANTSWORD, 1101, 2, 8, 0xB, 1, 4, 4, ' ', 50, 56, 34, 0, 2, 3, 16, 9, 28, 0, 0, 100, 0, 0, 3, 'W', 0, 0 } ,
{ "Kinemil's Awl", 'U', "Giant Sword", "Weapon Sword", 0x0230, 0x46, 0, 'U', 0x20736967, 0, IDB_ITEM_KINEMILSAWL, 1201, 0, 0, 0xB, 1, 4, 4, ' ', 250, 56, 34, 0, 2, 3, 16, 9, 28, 0, 0, 100, 0, 0, 3, 'W', 0, 0 } ,
{ "Bastard Sword", 'N', 0, "Weapon Sword", 0x0240, 0x0, 0, 'N', 0x20777362, 0, IDB_ITEM_BASTARDSWORD, 1101, 2, 8, 0xB, 1, 4, 4, ' ', 40, 62, 0, 0, 2, 6, 18, 20, 28, 0, 0, 100, 0, 0, 3, 'W', 0, 0 } ,
{ "Blacktongue", 'U', "Bastard Sword", "Weapon Sword", 0x0240, 0x48, 0, 'U', 0x20777362, 0, IDB_ITEM_BLACKTONGUE, 1201, 0, 0, 0xB, 1, 4, 4, ' ', 200, 62, 0, 0, 2, 6, 18, 20, 28, 0, 0, 100, 0, 0, 3, 'W', 0, 0 } ,
{ "Flamberge", 'N', 0, "Weapon Sword", 0x0250, 0x0, 0, 'N', 0x20626C66, 0, IDB_ITEM_FLAMBERGE, 1101, 2, 8, 0xB, 2, 4, 4, ' ', 50, 70, 49, 0, 2, 9, 15, 13, 26, 0, 0, 100, 0, 0, 3, 'W', 0, 0 } ,
{ "Ripsaw", 'U', "Flamberge", "Weapon Sword", 0x0250, 0x4A, 0, 'U', 0x20626C66, 0, IDB_ITEM_RIPSAW, 1201, 0, 0, 0xB, 2, 4, 4, ' ', 250, 70, 49, 0, 2, 9, 15, 13, 26, 0, 0, 100, 0, 0, 3, 'W', 0, 0 } ,
{ "Great Sword", 'N', 0, "Weapon Sword", 0x0260, 0x0, 0, 'N', 0x20647367, 0, IDB_ITEM_GREATSWORD, 1101, 2, 8, 0xB, 2, 4, 4, ' ', 50, 100, 60, 0, 2, 12, 18, 25, 42, 0, 0, 100, 0, 0, 3, 'W', 0, 0 } ,
{ "The Patriarch", 'U', "Great Sword", "Weapon Sword", 0x0260, 0x4C, 0, 'U', 0x20647367, 0, IDB_ITEM_THEPATRIARCH, 1201, 0, 0, 0xB, 2, 4, 4, ' ', 250, 100, 60, 0, 2, 12, 18, 25, 42, 0, 0, 100, 0, 0, 3, 'W', 0, 0 } ,
{ "Dagger", 'N', 0, "Weapon Dagger", 0x0270, 0x0, 0, 'N', 0x20726764, 0, IDB_ITEM_DAGGER, 1107, 2, 8, 0xB, 1, 2, 4, ' ', 16, 0, 0, 0, 1, 1, 4, 1, 4, 0, 0, 100, 0, 0, 1, 'W', 0, 0 } ,
{ "Gull", 'U', "Dagger", "Weapon Dagger", 0x0270, 0x4E, 0, 'U', 0x20726764, 0, IDB_ITEM_DAGGER, 1204, 0, 0, 0xB, 1, 2, 4, ' ', 120, 0, 0, 0, 1, 1, 4, 1, 4, 0, 0, 100, 0, 0, 1, 'W', 0, 0 } ,
{ "Dirk", 'N', 0, "Weapon Dagger", 0x0280, 0x0, 0, 'N', 0x20726964, 0, IDB_ITEM_DIRK, 1107, 2, 8, 0xB, 1, 2, 4, ' ', 20, 0, 25, 0, 1, 3, 7, 3, 7, 0, 0, 100, 0, 0, 1, 'W', 0, 0 } ,
{ "The Diggle", 'U', "Dirk", "Weapon Dagger", 0x0280, 0x50, 0, 'U', 0x20726964, 0, IDB_ITEM_THEDIGGLER, 1204, 0, 0, 0xB, 1, 2, 4, ' ', 100, 0, 25, 0, 1, 3, 7, 3, 7, 0, 0, 100, 0, 0, 1, 'W', 0, 0 } ,
{ "Kris", 'N', 0, "Weapon Dagger", 0x0290, 0x0, 0, 'N', 0x2069726B, 0, IDB_ITEM_KRIS, 1107, 2, 8, 0xB, 1, 3, 4, ' ', 24, 0, 45, 0, 1, 2, 9, 2, 9, 0, 0, 100, 0, 0, 2, 'W', 0, 0 } ,
{ "The Jade Tan Do", 'U', "Kris", "Weapon Dagger", 0x0290, 0x52, 0, 'U', 0x2069726B, 0, IDB_ITEM_THEJADETANDO, 1204, 0, 0, 0xB, 1, 3, 4, ' ', 120, 0, 45, 0, 1, 2, 9, 2, 9, 0, 0, 100, 0, 0, 2, 'W', 0, 0 } ,
{ "Blade", 'N', 0, "Weapon Dagger", 0x02A0, 0x0, 0, 'N', 0x20646C62, 0, IDB_ITEM_BLADE, 1107, 2, 8, 0xB, 1, 3, 4, ' ', 24, 35, 51, 0, 1, 4, 12, 4, 12, 0, 0, 100, 0, 0, 1, 'W', 0, 0 } ,
{ "Irice's Shard", 'U', "Blade", "Weapon Dagger", 0x02A0, 0x54, 0, 'U', 0x20646C62, 0, IDB_ITEM_IRICESSHARD, 1204, 0, 0, 0xB, 1, 3, 4, ' ', 120, 35, 51, 0, 1, 4, 12, 4, 12, 0, 0, 100, 0, 0, 1, 'W', 0, 0 } ,
{ "Throwing Knife", 'N', 0, "Weapon Throwing", 0x02B0, 0x0, 0, 'N', 0x20666B74, 0, IDB_ITEM_THROWINGKNIFE, 1108, 0, 0, 0x1, 1, 2, 4, ' ', 0, 0, 21, 0, 1, 2, 3, 2, 3, 4, 9, 100, 0, 0, 0, ' ', 75, 0 } ,
{ "Throwing Axe", 'N', 0, "Weapon Throwing", 0x02C0, 0x0, 0, 'N', 0x20786174, 0, IDB_ITEM_THROWINGAXE, 1108, 0, 0, 0x1, 1, 2, 4, ' ', 0, 0, 51, 0, 1, 4, 7, 4, 7, 8, 12, 100, 0, 0, 0, ' ', 32, 0 } ,
{ "Balanced Knife", 'N', 0, "Weapon Throwing", 0x02D0, 0x0, 0, 'N', 0x20666B62, 0, IDB_ITEM_BALANCEDKNIFE, 1108, 0, 0, 0x1, 1, 2, 4, ' ', 0, 0, 40, 0, 1, 1, 8, 1, 8, 6, 11, 100, 0, 0, 0, ' ', 60, 0 } ,
{ "Balanced Axe", 'N', 0, "Weapon Throwing", 0x02E0, 0x0, 0, 'N', 0x206C6162, 0, IDB_ITEM_BALANCEDAXE, 1108, 0, 0, 0x1, 2, 3, 4, ' ', 0, 0, 57, 0, 1, 5, 10, 5, 10, 12, 15, 100, 0, 0, 0, ' ', 24, 0 } ,
{ "Javelin", 'N', 0, "Weapon Javelin", 0x02F0, 0x0, 0, 'N', 0x2076616A, 0, IDB_ITEM_JAVELIN, 1104, 0, 0, 0x1, 1, 3, 4, 'A', 0, 0, 0, 0, 1, 1, 5, 1, 5, 6, 14, 100, 0, 0, 0, ' ', 60, 0 } ,
{ "Pilum", 'N', 0, "Weapon Javelin", 0x0300, 0x0, 0, 'N', 0x206C6970, 0, IDB_ITEM_PILUM, 1104, 0, 0, 0x1, 1, 3, 4, 'A', 0, 0, 45, 0, 1, 4, 9, 4, 9, 7, 20, 100, 0, 0, 0, ' ', 50, 0 } ,
{ "Short Spear", 'N', 0, "Weapon Javelin", 0x0310, 0x0, 0, 'N', 0x20707373, 0, IDB_ITEM_SHORTSPEAR, 1104, 0, 0, 0x1, 1, 3, 4, 'A', 0, 40, 40, 0, 1, 2, 13, 2, 13, 14, 25, 100, 0, 0, 0, ' ', 40, 0 } ,
{ "Glaive", 'N', 0, "Weapon Javelin", 0x0320, 0x0, 0, 'N', 0x20766C67, 0, IDB_ITEM_GLAIVE, 1104, 0, 0, 0x1, 1, 4, 4, 'A', 0, 52, 35, 0, 1, 5, 17, 5, 17, 2, 10, 100, 0, 0, 0, ' ', 20, 0 } ,
{ "Throwing Spear", 'N', 0, "Weapon Javelin", 0x0330, 0x0, 0, 'N', 0x20707374, 0, IDB_ITEM_THROWINGSPEAR, 1104, 0, 0, 0x1, 1, 4, 4, 'A', 0, 0, 65, 0, 1, 5, 15, 5, 15, 8, 28, 100, 0, 0, 0, ' ', 80, 0 } ,
{ "Spear", 'N', 0, "Weapon Spear", 0x0340, 0x0, 0, 'N', 0x20727073, 0, IDB_ITEM_SPEAR, 1105, 2, 64, 0xB, 2, 4, 4, ' ', 30, 0, 0, 0, 2, 3, 15, 3, 15, 0, 0, 100, 0, 0, 3, 'W', 0, 0 } ,
{ "The Dragon Chang", 'U', "Spear", "Weapon Spear", 0x0340, 0x56, 0, 'U', 0x20727073, 0, IDB_ITEM_THEDRAGONCHANG, 1205, 0, 0, 0xB, 2, 4, 4, ' ', 150, 0, 0, 0, 2, 3, 15, 3, 15, 0, 0, 100, 0, 0, 3, 'W', 0, 0 } ,
{ "Trident", 'N', 0, "Weapon Spear", 0x0350, 0x0, 0, 'N', 0x20697274, 0, IDB_ITEM_TRIDENT, 1105, 2, 64, 0xB, 2, 4, 4, ' ', 35, 38, 0, 0, 2, 9, 15, 9, 15, 0, 0, 100, 0, 0, 3, 'W', 0, 0 } ,
{ "Razortine", 'U', "Trident", "Weapon Spear", 0x0350, 0x58, 0, 'U', 0x20697274, 0, IDB_ITEM_RAZORTINE, 1205, 0, 0, 0xB, 2, 4, 4, ' ', 175, 38, 0, 0, 2, 9, 15, 9, 15, 0, 0, 100, 0, 0, 3, 'W', 0, 0 } ,
{ "Brandistock", 'N', 0, "Weapon Spear", 0x0360, 0x0, 0, 'N', 0x206E7262, 0, IDB_ITEM_BRANDISTOCK, 1105, 2, 64, 0xB, 2, 4, 4, ' ', 28, 40, 50, 0, 2, 7, 17, 7, 17, 0, 0, 100, 0, 0, 3, 'W', 0, 0 } ,
{ "Bloodthief", 'U', "Brandistock", "Weapon Spear", 0x0360, 0x5A, 0, 'U', 0x206E7262, 0, IDB_ITEM_BLOODTHIEF, 1205, 0, 0, 0xB, 2, 4, 4, ' ', 140, 40, 50, 0, 2, 7, 17, 7, 17, 0, 0, 100, 0, 0, 3, 'W', 0, 0 } ,
{ "Spetum", 'N', 0, "Weapon Spear", 0x0370, 0x0, 0, 'N', 0x20747073, 0, IDB_ITEM_SPETUM, 1105, 2, 64, 0xB, 2, 4, 4, ' ', 28, 54, 0, 0, 2, 15, 21, 15, 21, 0, 0, 100, 0, 0, 3, 'W', 0, 0 } ,
{ "Lance of Yaggai", 'U', "Spetum", "Weapon Spear", 0x0370, 0x5C, 0, 'U', 0x20747073, 0, IDB_ITEM_LANCEOFYAGGAI, 1205, 0, 0, 0xB, 2, 4, 4, ' ', 140, 54, 0, 0, 2, 15, 21, 15, 21, 0, 0, 100, 0, 0, 3, 'W', 0, 0 } ,
{ "Pike", 'N', 0, "Weapon Spear", 0x0380, 0x0, 0, 'N', 0x206B6970, 0, IDB_ITEM_PIKE, 1105, 2, 64, 0xB, 2, 4, 4, ' ', 25, 60, 45, 0, 2, 14, 63, 14, 63, 0, 0, 100, 0, 0, 3, 'W', 0, 0 } ,
{ "The Tannr Gorerod", 'U', "Pike", "Weapon Spear", 0x0380, 0x5E, 0, 'U', 0x206B6970, 0, IDB_ITEM_THETANNRGOREROD, 1205, 0, 0, 0xB, 2, 4, 4, ' ', 125, 60, 45, 0, 2, 14, 63, 14, 63, 0, 0, 100, 0, 0, 3, 'W', 0, 0 } ,
{ "Bardiche", 'N', 0, "Weapon Polearm", 0x0390, 0x0, 0, 'N', 0x20726162, 0, IDB_ITEM_BARDICHE, 1106, 2, 64, 0xB, 2, 4, 4, ' ', 50, 40, 0, 0, 2, 1, 25, 1, 25, 0, 0, 100, 0, 0, 3, 'W', 0, 0 } ,

```

```

{ "Dimoak's Hew", 'U', "Bardiche", "Weapon Polearm", 0x0390, 0x60, 0, 'U', 0x20726162, 0, IDB_ITEM_DIMOAKSHEW, 1206, 0, 0, 0xB, 2, 4, 4, '
', 250, 40, 0, 0, 2, 1, 25, 1, 25, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "Voulge", 'N', 0, "Weapon Polearm", 0x03A0, 0x0, 0, 'N', 0x20756F76, 0, IDB_ITEM_VOULGE, 1106, 2, 64, 0xB, 2, 4, 4, ' ', 50, 50, 0, 0, 2, 6, 20
, 6, 20, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "Steelgoad", 'U', "Voulge", "Weapon Polearm", 0x03A0, 0x62, 0, 'U', 0x20756F76, 0, IDB_ITEM_STEELGOAD, 1206, 0, 0, 0xB, 2, 4, 4, ' ', 250
, 50, 0, 0, 2, 6, 20, 6, 20, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "Scythe", 'N', 0, "Weapon Polearm", 0x03B0, 0x0, 0, 'N', 0x20796373, 0, IDB_ITEM_SCYTHE, 1106, 2, 64, 0xB, 2, 4, 4, ' ', 65, 47, 41, 0, 2, 8, 2
0, 8, 20, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "Soul Harvest", 'U', "Scythe", "Weapon Polearm", 0x03B0, 0x64, 0, 'U', 0x20796373, 0, IDB_ITEM_SOULHARVEST, 1206, 0, 0, 0xB, 2, 4, 4, '
', 255, 41, 41, 0, 2, 8, 20, 8, 20, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "Pole Axe", 'N', 0, "Weapon Polearm", 0x03C0, 0x0, 0, 'N', 0x20786170, 0, IDB_ITEM_POLEAXE, 1106, 2, 64, 0xB, 2, 4, 4, ' ', 65, 62, 0, 0, 2, 1
8, 30, 18, 30, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "The Battlebranch", 'U', "Pole Axe", "Weapon Polearm", 0x03C0, 0x66, 0, 'U', 0x20786170, 0, IDB_ITEM_THEBATTLEBRANCH, 1206, 0, 0, 0xB
, 2, 4, 4, ' ', 255, 62, 0, 0, 2, 18, 30, 18, 30, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "Halberd", 'N', 0, "Weapon Polearm", 0x03D0, 0x0, 0, 'N', 0x206C6168, 0, IDB_ITEM_HALBERD, 1106, 2, 64, 0xB, 2, 4, 4, ' ', 55, 75, 47, 0, 2, 1
2, 35, 12, 40, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "Woestave", 'U', "Halberd", "Weapon Polearm", 0x03D0, 0x68, 0, 'U', 0x206C6168, 0, IDB_ITEM_WOESTAVE, 1206, 0, 0, 0xB, 2, 4, 4, ' ', 255,
75, 47, 0, 2, 12, 35, 12, 40, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "War Scythe", 'N', 0, "Weapon Polearm", 0x03E0, 0x0, 0, 'N', 0x20637377, 0, IDB_ITEM_WARSCYTHE, 1106, 2, 64, 0xB, 2, 4, 4, ' ', 55, 80, 80,
0, 2, 15, 32, 15, 32, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "The Grim Reaper", 'U', "War Scythe", "Weapon Polearm", 0x03E0, 0x6A, 0, 'U', 0x20637377, 0, IDB_ITEM_WARSCYTHE, 1206, 0, 0, 0xB, 2, 4
, 4, ' ', 255, 80, 80, 0, 2, 15, 32, 15, 32, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "Short Staff", 'N', 0, "Weapon Staff", 0x03F0, 0x0, 0, 'N', 0x20747373, 0, IDB_ITEM_SHORTSTAFF, 1113, 64, 512, 0xB, 1, 3, 4, 'S', 20, 0, 0,
0, 2, 1, 5, 1, 5, 0, 0, 100, 0, 0, 2, 'W', 0, 0 },
{ "Bane Ash", 'U', "Short Staff", "Weapon Staff", 0x03F0, 0x6C, 0, 'U', 0x20747373, 0, IDB_ITEM_BANEASH, 1211, 0, 0, 0xB, 1, 3, 4, ' ', 100
, 0, 0, 2, 1, 5, 1, 5, 0, 0, 100, 0, 0, 2, 'W', 0, 0 },
{ "Long Staff", 'N', 0, "Weapon Staff", 0x0400, 0x0, 0, 'N', 0x2074736C, 0, IDB_ITEM_LONGSTAFF, 1113, 64, 512, 0xB, 1, 4, 4, 'S', 30, 0, 0, 0,
2, 2, 8, 2, 8, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "Serpent Lord", 'U', "Long Staff", "Weapon Staff", 0x0400, 0x6E, 0, 'U', 0x2074736C, 0, IDB_ITEM_SERPENTLORD, 1211, 0, 0, 0xB, 1, 4, 4,
', 150, 0, 0, 0, 2, 2, 8, 2, 8, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "Gnarled Staff", 'N', 0, "Weapon Staff", 0x0410, 0x0, 0, 'N', 0x20747363, 0, IDB_ITEM_GNARLEDSTAFF, 1113, 64, 512, 0xB, 1, 4, 4, 'S', 35,
0, 0, 0, 2, 4, 12, 4, 12, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "Lazarus' Spire", 'U', "Gnarled Staff", "Weapon Staff", 0x0410, 0x70, 0, 'U', 0x20747363, 0, IDB_ITEM_LAZARUSSPIRE, 1211, 0, 0, 0xB,
1, 4, 4, ' ', 175, 0, 0, 0, 2, 4, 12, 4, 12, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "Battle Staff", 'N', 0, "Weapon Staff", 0x0420, 0x0, 0, 'N', 0x20747362, 0, IDB_ITEM_BATTLESTAFF, 1113, 64, 512, 0xF, 1, 4, 4, 'S', 40, 0,
0, 0, 2, 6, 13, 6, 13, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "Cathan's Rule", 'S', "Battle Staff", "Weapon Staff", 0x0420, 0x0E, 0, 'S', 0x20747362, 0, IDB_ITEM_CATHANSRULE, 20005, 0, 0, 0xF, 1,
4, 4, ' ', 80, 0, 0, 0, 2, 6, 13, 6, 13, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "The Salamander", 'U', "Battle Staff", "Weapon Staff", 0x0420, 0x72, 0, 'U', 0x20747362, 0, IDB_ITEM_THESALAMANDER, 1211, 0, 0, 0xF,
1, 4, 4, ' ', 200, 0, 0, 0, 2, 6, 13, 6, 13, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "War Staff", 'N', 0, "Weapon Staff", 0x0430, 0x0, 0, 'N', 0x20747377, 0, IDB_ITEM_WARSTAFF, 1113, 64, 512, 0xF, 2, 4, 4, 'S', 50, 0, 0, 0, 2,
12, 28, 12, 28, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "Arcanna's Deathwand", 'S', "War Staff", "Weapon Staff", 0x0430, 0x1E, 0, 'S', 0x20747377, 0, IDB_ITEM_ARCANNASDEATHWAND, 20002, 0,
0, 0xF, 2, 4, 4, ' ', 100, 0, 0, 0, 2, 12, 28, 12, 28, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "The Iron Lang Bong", 'U', "War Staff", "Weapon Staff", 0x0430, 0x74, 0, 'U', 0x20747377, 0, IDB_ITEM_THEIRONLANGBONG, 1211, 0, 0, 0
xF, 2, 4, 4, ' ', 250, 0, 0, 0, 2, 12, 28, 12, 28, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "Short Bow", 'N', 0, "Weapon Bow", 0x0440, 0x0, 0, 'N', 0x20776273, 0, IDB_ITEM_SHORTBOW, 1109, 128, 1024, 0xB, 2, 3, 4, ' ', 0, 0, 15, 0, 2,
1, 4, 1, 4, 1, 4, 100, 0, 0, 3, 'W', 0, 0 },
{ "Pluckeye", 'U', "Short Bow", "Weapon Bow", 0x0440, 0x76, 0, 'U', 0x20776273, 0, IDB_ITEM_PLUCKEYE, 1207, 0, 0, 0xB, 2, 3, 4, ' ', 0, 0, 15
, 0, 2, 1, 4, 1, 4, 1, 4, 100, 0, 0, 3, 'W', 0, 0 },
{ "Hunter's Bow", 'N', 0, "Weapon Bow", 0x0450, 0x0, 0, 'N', 0x20776268, 0, IDB_ITEM_HUNTERS BOW, 1109, 128, 1024, 0xB, 2, 3, 4, ' ', 0, 0, 28
, 0, 2, 2, 7, 2, 7, 2, 6, 100, 0, 0, 3, 'W', 0, 0 },
{ "Witherstring", 'U', "Hunter's Bow", "Weapon Bow", 0x0450, 0x78, 0, 'U', 0x20776268, 0, IDB_ITEM_WITHERSTRING, 1207, 0, 0, 0xB, 2, 3, 4,
', 0, 0, 28, 0, 2, 2, 7, 2, 7, 2, 6, 100, 0, 0, 3, 'W', 0, 0 },
{ "Long Bow", 'N', 0, "Weapon Bow", 0x0460, 0x0, 0, 'N', 0x2077626C, 0, IDB_ITEM_LOGBOW, 1109, 128, 1024, 0xB, 2, 4, 4, ' ', 0, 22, 19, 0, 2, 3
, 10, 3, 10, 3, 10, 100, 0, 0, 3, 'W', 0, 0 },
{ "Raven's Claw", 'U', "Long Bow", "Weapon Bow", 0x0460, 0x7A, 0, 'U', 0x2077626C, 0, IDB_ITEM_RIMERAVERN, 1207, 0, 0, 0xB, 2, 4, 4, ' ', 0,
22, 19, 0, 2, 3, 10, 3, 10, 3, 10, 100, 0, 0, 3, 'W', 0, 0 },
{ "Composite Bow", 'N', 0, "Weapon Bow", 0x0470, 0x0, 0, 'N', 0x20776263, 0, IDB_ITEM_COMPOSITEBOW, 1109, 128, 1024, 0xB, 2, 3, 4, ' ', 0, 2
5, 35, 0, 2, 4, 8, 4, 8, 4, 8, 100, 0, 0, 3, 'W', 0, 0 },
{ "Rogue's Bow", 'U', "Composite Bow", "Weapon Bow", 0x0470, 0x7C, 0, 'U', 0x20776263, 0, IDB_ITEM_PIERCERIB, 1207, 0, 0, 0xB, 2, 3, 4, '
', 0, 25, 35, 0, 2, 4, 8, 4, 8, 4, 8, 100, 0, 0, 3, 'W', 0, 0 },
{ "Short Battle Bow", 'N', 0, "Weapon Bow", 0x0480, 0x0, 0, 'N', 0x20626273, 0, IDB_ITEM_SHORTBATTLEBOW, 1109, 128, 1024, 0xB, 2, 3, 4, '
', 0, 30, 40, 0, 2, 5, 11, 5, 11, 5, 11, 100, 0, 0, 3, 'W', 0, 0 },
{ "Stormstrike", 'U', "Short Battle Bow", "Weapon Bow", 0x0480, 0x7E, 0, 'U', 0x20626273, 0, IDB_ITEM_PULLSPITE, 1207, 0, 0, 0xB, 2, 3, 4,
', 0, 30, 40, 0, 2, 5, 11, 5, 11, 5, 11, 100, 0, 0, 3, 'W', 0, 0 },
{ "Long Battle Bow", 'N', 0, "Weapon Bow", 0x0490, 0x0, 0, 'N', 0x2062626C, 0, IDB_ITEM_LOGBATTLEBOW, 1109, 128, 1024, 0xF, 2, 4, 4, ' ',
0, 40, 50, 0, 2, 3, 18, 3, 18, 3, 18, 100, 0, 0, 3, 'W', 0, 0 },
{ "Vidala's Barb", 'S', "Long Battle Bow", "Weapon Bow", 0x0490, 0x0A, 0, 'S', 0x2062626C, 0, IDB_ITEM_VIDALASBARB, 20016, 0, 0, 0xF, 2,
4, 4, ' ', 0, 40, 50, 0, 2, 3, 18, 3, 18, 3, 18, 100, 0, 0, 3, 'W', 0, 0 },
{ "Wizendraw", 'U', "Long Battle Bow", "Weapon Bow", 0x0490, 0x80, 0, 'U', 0x2062626C, 0, IDB_ITEM_WIZENDRAW, 1207, 0, 0, 0xF, 2, 4, 4, '
', 0, 40, 50, 0, 2, 3, 18, 3, 18, 3, 18, 100, 0, 0, 3, 'W', 0, 0 },
{ "Short War Bow", 'N', 0, "Weapon Bow", 0x04A0, 0x0, 0, 'N', 0x20627773, 0, IDB_ITEM_SHORTWARBOW, 1109, 128, 1024, 0xF, 2, 3, 4, ' ', 0, 35
, 55, 0, 2, 6, 14, 6, 14, 6, 14, 100, 0, 0, 3, 'W', 0, 0 },
{ "Arctic Horn", 'S', "Short War Bow", "Weapon Bow", 0x04A0, 0x1C, 0, 'S', 0x20627773, 0, IDB_ITEM_ARCTICHORN, 20003, 0, 0, 0xF, 2, 3, 4,
', 0, 35, 55, 0, 2, 6, 14, 6, 14, 6, 14, 100, 0, 0, 3, 'W', 0, 0 },
{ "Hellclap", 'U', "Short War Bow", "Weapon Bow", 0x04A0, 0x82, 0, 'U', 0x20627773, 0, IDB_ITEM_HELLCLAP, 1207, 0, 0, 0xF, 2, 3, 4, ' ', 0,
35, 55, 0, 2, 6, 14, 6, 14, 6, 14, 100, 0, 0, 3, 'W', 0, 0 },
{ "Long War Bow", 'N', 0, "Weapon Bow", 0x04B0, 0x0, 0, 'N', 0x2062776C, 0, IDB_ITEM_LOGBWARBOW, 1109, 128, 1024, 0xB, 2, 4, 4, ' ', 0, 50, 6

```



```

5,0,2,3,23,3,23,3,23,100,0,0,3,'W',0,0 },
{ "Blastbark", 'U', "Long War Bow", "Weapon Bow", 0x04B0, 0x84, 0, 'U', 0x2062776C, 0, IDB_ITEM_BLAStBARK, 1207, 0, 0, 0xB, 2, 4, 4, ' ', 0,
50, 65, 0, 2, 3, 23, 3, 23, 3, 23, 100, 0, 0, 3, 'W', 0, 0 },
{ "Light Crossbow", 'N', 0, "Weapon Crossbow", 0x04C0, 0x0, 0, 'N', 0x2062786C, 0, IDB_ITEM_LIGHtCROSSBOW, 1110, 128, 1024, 0xB, 2, 3, 4,
', 0, 21, 27, 0, 2, 6, 9, 6, 9, 6, 9, 100, 0, 0, 3, 'W', 0, 0 },
{ "Leadcrow", 'U', "Light Crossbow", "Weapon Crossbow", 0x04C0, 0x86, 0, 'U', 0x2062786C, 0, IDB_ITEM_LEADcROW, 1208, 0, 0, 0xB, 2, 3, 4,
', 0, 21, 27, 0, 2, 6, 9, 6, 9, 6, 9, 100, 0, 0, 3, 'W', 0, 0 },
{ "Crossbow", 'N', 0, "Weapon Crossbow", 0x04D0, 0x0, 0, 'N', 0x2062786D, 0, IDB_ITEM_CROSSBOW, 1110, 128, 1024, 0xB, 2, 3, 4, ' ', 0, 40, 33
, 0, 2, 9, 14, 9, 14, 9, 14, 100, 0, 0, 3, 'W', 0, 0 },
{ "Ichorsting", 'U', "Crossbow", "Weapon Crossbow", 0x04D0, 0x88, 0, 'U', 0x2062786D, 0, IDB_ITEM_ICHORStING, 1208, 0, 0, 0xB, 2, 3, 4, '
', 0, 40, 33, 0, 2, 9, 14, 9, 14, 9, 14, 100, 0, 0, 3, 'W', 0, 0 },
{ "Heavy Crossbow", 'N', 0, "Weapon Crossbow", 0x04E0, 0x0, 0, 'N', 0x20627868, 0, IDB_ITEM_HEAVYcROSSBOW, 1110, 128, 1024, 0xB, 2, 4, 4,
', 0, 60, 40, 0, 2, 12, 20, 12, 20, 12, 20, 100, 0, 0, 3, 'W', 0, 0 },
{ "Hellcast", 'U', "Heavy Crossbow", "Weapon Crossbow", 0x04E0, 0x8A, 0, 'U', 0x20627868, 0, IDB_ITEM_HELLcCAST, 1208, 0, 0, 0xB, 2, 4, 4,
', 0, 60, 40, 0, 2, 12, 20, 12, 20, 12, 20, 100, 0, 0, 3, 'W', 0, 0 },
{ "Repeating Crossbow", 'N', 0, "Weapon Crossbow", 0x04F0, 0x0, 0, 'N', 0x20627872, 0, IDB_ITEM_REPEATINGcROSSBOW, 1110, 128, 1024, 0xB,
2, 3, 4, ' ', 0, 40, 50, 0, 2, 6, 12, 6, 12, 6, 12, 100, 0, 0, 3, 'W', 0, 0 },
{ "Doomspittle", 'U', "Repeating Crossbow", "Weapon Crossbow", 0x04F0, 0x8C, 0, 'U', 0x20627872, 0, IDB_ITEM_DOOMSPITtLE, 1208, 0, 0,
0xB, 2, 3, 4, ' ', 0, 40, 50, 0, 2, 6, 12, 6, 12, 6, 12, 100, 0, 0, 3, 'W', 0, 0 },
{ "Rancid Gas Potion", 'N', 0, "Potion Throwing", 0x0500, 0x0, 0, 'N', 0x20737067, 0, IDB_ITEM_RANcIDGAS, 1400, 0, 0, 0x1, 1, 1, -1, ' ', 0,
0, 0, 0, 0, 1, 0, 1, 0, 0, 100, 0, 0, 0, ' ', 10, 0 },
{ "Oil Potion", 'N', 0, "Potion Throwing", 0x0510, 0x0, 0, 'N', 0x2073706F, 0, IDB_ITEM_OIL, 1400, 0, 0, 0x1, 1, 1, -1, ' ', 0, 0, 0, 0, 0, 0, 1,
0, 1, 0, 0, 100, 0, 0, 0, ' ', 10, 0 },
{ "Choking Gas Potion", 'N', 0, "Potion Throwing", 0x0520, 0x0, 0, 'N', 0x206D7067, 0, IDB_ITEM_CHOKINGGAS, 1400, 0, 0, 0x1, 1, 1, -1, ' '
, 0, 0, 0, 0, 0, 0, 1, 0, 1, 0, 0, 100, 0, 0, 0, ' ', 10, 0 },
{ "Exploding Potion", 'N', 0, "Potion Throwing", 0x0530, 0x0, 0, 'N', 0x206D706F, 0, IDB_ITEM_EXPLODING, 1400, 0, 0, 0x1, 1, 1, -1, ' ', 0,
0, 0, 0, 0, 1, 0, 1, 0, 0, 100, 0, 0, 0, ' ', 10, 0 },
{ "Strangling Gas Potion", 'N', 0, "Potion Throwing", 0x0540, 0x0, 0, 'N', 0x206C7067, 0, IDB_ITEM_STRANGLINGGAS, 1400, 0, 0, 0x1, 1, 1,
-1, ' ', 0, 0, 0, 0, 0, 0, 1, 0, 1, 0, 0, 100, 0, 0, 0, ' ', 10, 0 },
{ "Fulminating Potion", 'N', 0, "Potion Throwing", 0x0550, 0x0, 0, 'N', 0x206C706F, 0, IDB_ITEM_FULM, 1400, 0, 0, 0x1, 1, 1, -1, ' ', 0, 0, 0,
0, 0, 1, 0, 1, 0, 0, 100, 0, 0, 0, ' ', 10, 0 },
{ "Decoy Gidbinn", 'Q', 0, "Special Weapon", 0x0560, 0x0, 0, 'N', 0x20333364, 0, IDB_ITEM_DECOYGIDBINN, 30003, 2, 8, 0x3, 1, 2, 4, ' ', 0, 2
0, 15, 0, 1, 1, 2, 1, 2, 0, 0, 100, 0, 0, 0, ' ', 0, 0 },
{ "The Gidbinn", 'Q', 0, "Special Weapon", 0x0570, 0x0, 0, 'N', 0x20333367, 0, IDB_ITEM_THEGIDBINN, 30003, 2, 8, 0x3, 1, 2, 4, ' ', 0, 25, 15
, 0, 1, 3, 7, 3, 7, 0, 0, 100, 0, 0, 0, ' ', 0, 0 },
{ "Wirt's Leg", 'Q', 0, "Special Weapon", 0x0580, 0x0, 0, 'N', 0x2067656C, 0, IDB_ITEM_WIRTSLEG, 30001, 2, 32, 0x3, 1, 3, 4, ' ', 0, 0, 0, 0, 1
, 2, 8, 2, 8, 0, 0, 150, 0, 0, 2, ' ', 0, 0 },
{ "Horadric Malus", 'Q', 0, "Special Weapon", 0x0590, 0x0, 0, 'N', 0x206D6468, 0, IDB_ITEM_HORADRICMALUS, 30001, 2, 8, 0x3, 1, 2, 4, ' ', 0
, 15, 15, 0, 1, 6, 15, 6, 15, 0, 0, 150, 0, 0, 0, ' ', 0, 0 },
{ "Hellforge Hammer", 'U', 0, "Special Weapon", 0x05A0, 0xFC, 0, 'U', 0x20686668, 0, IDB_ITEM_HELLFORGEHAMMER, 30004, 2, 16, 0x8, 2, 3, 4,
', 0, 0, 0, 0, 1, 6, 15, 6, 15, 0, 0, 150, 0, 0, 0, ' ', 0, 0 },
{ "Horadric Staff", 'U', 0, "Special Weapon", 0x05B0, 0xFA, 0, 'U', 0x20747368, 0, IDB_ITEM_HORADRICSTAFF, 30002, 64, 512, 0x8, 1, 4, 4, '
', 250, 40, 30, 0, 2, 12, 20, 12, 20, 0, 0, 100, 0, 0, 0, ' ', 0, 0 },
{ "Shaft of the Horadric Staff", 'U', 0, "Special Weapon", 0x05C0, 0xF8, 0, 'U', 0x2066736D, 0, IDB_ITEM_SHAFTOFHORADRICSTAFF, 3000
2, 64, 512, 0x8, 1, 3, 4, ' ', 0, 35, 25, 0, 2, 10, 15, 10, 15, 0, 0, 100, 0, 0, 0, ' ', 0, 0 },
{ "Hatchet", 'E', "Hand Axe", "Weapon Axe", 0x05D0, 0x0, 0, 'N', 0x20616839, 0, IDB_ITEM_HANDAXE, 1302, 2, 16, 0x3, 1, 3, 4, ' ', 28, 25, 25,
0, 1, 10, 21, 10, 22, 0, 0, 100, 0, 0, 2, 'W', 0, 0 },
{ "Cleaver", 'E', "Axe", "Weapon Axe", 0x05E0, 0x0, 0, 'N', 0x20786139, 0, IDB_ITEM_AXE, 1302, 2, 16, 0x3, 2, 3, 4, ' ', 24, 68, 0, 0, 1, 10, 29,
10, 30, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "Twin Axe", 'E', "Double Axe", "Weapon Axe", 0x05F0, 0x0, 0, 'N', 0x20613239, 0, IDB_ITEM_DOUBLEAXE, 1302, 2, 16, 0x3, 2, 3, 4, ' ', 24, 8
5, 0, 0, 1, 13, 30, 13, 32, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "Crowbill", 'E', "Military Pick", "Weapon Axe", 0x0600, 0x0, 0, 'N', 0x20706D39, 0, IDB_ITEM_MILITARYPICK, 1302, 2, 16, 0x3, 2, 3, 4, '
', 26, 94, 70, 0, 1, 14, 27, 14, 29, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "Naga", 'E', "War Axe", "Weapon Axe", 0x0610, 0x0, 0, 'N', 0x20617739, 0, IDB_ITEM_WARAXE, 1302, 2, 16, 0x3, 2, 3, 4, ' ', 26, 121, 0, 0, 1, 1
8, 34, 18, 35, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "Military Axe", 'E', "Large Axe", "Weapon Axe", 0x0620, 0x0, 0, 'N', 0x20616C39, 0, IDB_ITEM_LARGEAXE, 1302, 2, 16, 0x3, 2, 3, 4, ' ', 30
, 73, 0, 0, 2, 14, 32, 14, 34, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "Bearded Axe", 'E', "Broad Axe", "Weapon Axe", 0x0630, 0x0, 0, 'N', 0x20616239, 0, IDB_ITEM_BROADAXE, 1302, 2, 16, 0x3, 2, 3, 4, ' ', 35,
92, 0, 0, 2, 19, 38, 21, 42, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "Tabar", 'E', "Battle Axe", "Weapon Axe", 0x0640, 0x0, 0, 'N', 0x20746239, 0, IDB_ITEM_BATTLEAXE, 1302, 2, 16, 0x3, 2, 3, 4, ' ', 40, 101,
0, 0, 2, 21, 56, 24, 58, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "Gothic Axe", 'E', "Great Axe", "Weapon Axe", 0x0650, 0x0, 0, 'N', 0x20616739, 0, IDB_ITEM_GREATAXE, 1302, 2, 16, 0x3, 2, 4, 4, ' ', 50, 1
15, 79, 0, 2, 14, 50, 18, 54, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "Ancient Axe", 'E', "Giant Axe", "Weapon Axe", 0x0660, 0x0, 0, 'N', 0x20696739, 0, IDB_ITEM_GIANTAXE, 1302, 2, 16, 0x3, 2, 3, 4, ' ', 50,
125, 0, 0, 2, 46, 72, 46, 74, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "Burnt Wand", 'E', "Wand", "Weapon Wand", 0x0670, 0x0, 0, 'N', 0x206E7739, 0, IDB_ITEM_WAND, 1311, 32, 256, 0x3, 1, 2, 4, 'N', 15, 25, 0, 0,
1, 8, 18, 8, 19, 0, 0, 100, 0, 0, 0, ' ', 0, 0 },
{ "Petrified Wand", 'E', "Yew Wand", "Weapon Wand", 0x0680, 0x0, 0, 'N', 0x20777939, 0, IDB_ITEM_YEWWAND, 1311, 32, 256, 0x3, 1, 2, 4, 'N'
, 15, 25, 0, 0, 1, 8, 24, 8, 26, 0, 0, 100, 0, 0, 0, ' ', 0, 0 },
{ "Tomb Wand", 'E', "Bone Wand", "Weapon Wand", 0x0690, 0x0, 0, 'N', 0x20776239, 0, IDB_ITEM_BONEWAND, 1311, 32, 256, 0x3, 1, 2, 4, 'N', 15
, 25, 0, 0, 1, 10, 22, 10, 24, 0, 0, 100, 0, 0, 0, ' ', 0, 0 },
{ "Grave Wand", 'E', "Grim Wand", "Weapon Wand", 0x06A0, 0x0, 0, 'N', 0x20776739, 0, IDB_ITEM_GRIMWAND, 1311, 32, 256, 0x3, 1, 2, 4, 'N', 1
5, 25, 0, 0, 1, 13, 29, 13, 30, 0, 0, 100, 0, 0, 0, ' ', 0, 0 },
{ "Cudgel", 'E', "Club", "Weapon Mace", 0x06B0, 0x0, 0, 'N', 0x206C6339, 0, IDB_ITEM_CLUB, 1303, 2, 32, 0x3, 1, 3, 4, ' ', 24, 25, 0, 0, 1, 6, 21
, 6, 22, 0, 0, 150, 0, 0, 2, 'W', 0, 0 },
{ "Rune Scepter", 'E', "Scepter", "Weapon Scepter", 0x06C0, 0x0, 0, 'N', 0x20637339, 0, IDB_ITEM_SCEPTER, 1312, 16, 128, 0x3, 1, 3, 4, 'P'
, 50, 58, 0, 0, 1, 13, 24, 13, 26, 0, 0, 150, 0, 0, 2, 'W', 0, 0 },
{ "Holy Water Sprinkler", 'E', "Grand Scepter", "Weapon Scepter", 0x06D0, 0x0, 0, 'N', 0x20737139, 0, IDB_ITEM_GRANDSCEPTER, 1312, 1
6, 128, 0x3, 1, 3, 4, 'P', 60, 76, 25, 0, 1, 14, 29, 14, 30, 0, 0, 150, 0, 0, 2, 'W', 0, 0 },

```

```

{ "Divine Scepter", 'E', "War Scepter", "Weapon Scepter", 0x06E0, 0x0, 0, 'N', 0x20737739, 0, IDB_ITEM_WARSCEPTER, 1312, 16, 128, 0x3,
2, 3, 4, 'P', 70, 103, 0, 0, 1, 16, 34, 10, 24, 0, 0, 150, 0, 0, 2, 'W', 0, 0 },
{ "Barbed Club", 'E', "Spiked Club", "Weapon Mace", 0x06F0, 0x0, 0, 'N', 0x20707339, 0, IDB_ITEM_SPIKEDCLUB, 1303, 2, 32, 0x3, 1, 3, 4, '
', 36, 20, 0, 0, 1, 13, 21, 13, 22, 0, 0, 150, 0, 0, 2, 'W', 0, 0 },
{ "Flanged Mace", 'E', "Mace", "Weapon Mace", 0x0700, 0x0, 0, 'N', 0x20616D39, 0, IDB_ITEM_MACE, 1303, 2, 32, 0x3, 1, 3, 4, ' ', 60, 61, 0, 0,
1, 10, 27, 10, 29, 0, 0, 150, 0, 0, 2, 'W', 0, 0 },
{ "Jagged Star", 'E', "Morning Star", "Weapon Mace", 0x0710, 0x0, 0, 'N', 0x20746D39, 0, IDB_ITEM_MORNINGSTAR, 1303, 2, 32, 0x3, 1, 3, 4, '
', 72, 74, 0, 0, 1, 13, 30, 13, 32, 0, 0, 150, 0, 0, 2, 'W', 0, 0 },
{ "Knout", 'E', "Flail", "Weapon Mace", 0x0720, 0x0, 0, 'N', 0x206C6639, 0, IDB_ITEM_FLAIL, 1303, 2, 32, 0x3, 2, 3, 4, ' ', 30, 82, 73, 0, 1, 6,
35, 6, 37, 0, 0, 150, 0, 0, 3, 'W', 0, 0 },
{ "Battle Hammer", 'E', "War Hammer", "Weapon Mace", 0x0730, 0x0, 0, 'N', 0x20687739, 0, IDB_ITEM_WARHAMMER, 1303, 2, 32, 0x3, 2, 3, 4, '
', 55, 100, 0, 0, 1, 22, 43, 22, 45, 0, 0, 150, 0, 0, 3, 'W', 0, 0 },
{ "War Club", 'E', "Maul", "Weapon Mace", 0x0740, 0x0, 0, 'N', 0x20396D39, 0, IDB_ITEM_MAUL, 1303, 2, 32, 0x3, 2, 4, 4, ' ', 60, 124, 25, 0, 2,
6, 13, 53, 77, 0, 0, 150, 0, 0, 3, 'W', 0, 0 },
{ "Martel De Fer", 'E', "Great Maul", "Weapon Mace", 0x0750, 0x0, 0, 'N', 0x206D6739, 0, IDB_ITEM_GREATMAUL, 1303, 2, 32, 0x3, 2, 3, 4, '
', 60, 169, 0, 0, 2, 6, 13, 61, 101, 0, 0, 150, 0, 0, 3, 'W', 0, 0 },
{ "Gladius", 'E', "Short Sword", "Weapon Sword", 0x0760, 0x0, 0, 'N', 0x20737339, 0, IDB_ITEM_SHORTSWORD, 1301, 2, 8, 0x3, 1, 3, 4, ' ', 24
, 25, 0, 0, 1, 8, 22, 8, 24, 0, 0, 100, 0, 0, 2, 'W', 0, 0 },
{ "Cutlass", 'E', "Scimitar", "Weapon Sword", 0x0770, 0x0, 0, 'N', 0x206D7339, 0, IDB_ITEM_SCIMITAR, 1301, 2, 8, 0x3, 1, 3, 4, ' ', 22, 25, 5
2, 0, 1, 8, 21, 8, 22, 0, 0, 100, 0, 0, 2, 'W', 0, 0 },
{ "Shamshir", 'E', "Sabre", "Weapon Sword", 0x0780, 0x0, 0, 'N', 0x20627339, 0, IDB_ITEM_SABRE, 1301, 2, 8, 0x3, 1, 3, 4, ' ', 32, 58, 58, 0, 1
, 10, 24, 10, 26, 0, 0, 100, 0, 0, 2, 'W', 0, 0 },
{ "Tulwar", 'E', "Falchion", "Weapon Sword", 0x0790, 0x0, 0, 'N', 0x20636639, 0, IDB_ITEM_FALCHION, 1301, 2, 8, 0x3, 1, 3, 4, ' ', 32, 70, 0,
0, 1, 16, 35, 16, 37, 0, 0, 100, 0, 0, 2, 'W', 0, 0 },
{ "Dimensional Blade", 'E', "Crystal Sword", "Weapon Sword", 0x07A0, 0x0, 0, 'N', 0x20726339, 0, IDB_ITEM_CRYSTALSWORD, 1301, 2, 8, 0x
3, 2, 3, 4, ' ', 10, 85, 0, 0, 1, 13, 35, 13, 37, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "Battle Sword", 'E', "Broad Sword", "Weapon Sword", 0x07B0, 0x0, 0, 'N', 0x20736239, 0, IDB_ITEM_BROADSWORD, 1301, 2, 8, 0x3, 2, 3, 4, '
', 32, 92, 0, 0, 1, 16, 34, 16, 35, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "Rune Sword", 'E', "Long Sword", "Weapon Sword", 0x07C0, 0x0, 0, 'N', 0x20736C39, 0, IDB_ITEM_LONGSWORD, 1301, 2, 8, 0x3, 2, 3, 4, ' ', 4
4, 103, 79, 0, 1, 10, 42, 10, 43, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "Ancient Sword", 'E', "War Sword", "Weapon Sword", 0x07D0, 0x0, 0, 'N', 0x20647739, 0, IDB_ITEM_WARSWORD, 1301, 2, 8, 0x3, 1, 3, 4, ' ',
44, 127, 88, 0, 1, 18, 43, 18, 45, 0, 0, 100, 0, 0, 2, 'W', 0, 0 },
{ "Espandon", 'E', "Two Handed Sword", "Weapon Sword", 0x07E0, 0x0, 0, 'N', 0x20683239, 0, IDB_ITEM_2HSWORD, 1301, 2, 8, 0x3, 1, 4, 4, ' ',
44, 73, 61, 0, 2, 8, 26, 18, 40, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "Dacian Falx", 'E', "Claymore", "Weapon Sword", 0x07F0, 0x0, 0, 'N', 0x206D6339, 0, IDB_ITEM_CLAYMORE, 1301, 2, 8, 0x3, 1, 4, 4, ' ', 50,
91, 20, 0, 2, 13, 30, 26, 61, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "Tusk Sword", 'E', "Giant Sword", "Weapon Sword", 0x0800, 0x0, 0, 'N', 0x20736739, 0, IDB_ITEM_GIANTSWORD, 1301, 2, 8, 0x3, 1, 4, 4, ' '
, 50, 104, 71, 0, 2, 10, 37, 19, 58, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "Gothic Sword", 'E', "Bastard Sword", "Weapon Sword", 0x0810, 0x0, 0, 'N', 0x20396239, 0, IDB_ITEM_BASTARDSWORD, 1301, 2, 8, 0x3, 1, 4
, 4, ' ', 40, 113, 20, 0, 2, 14, 40, 37, 58, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "Zweihander", 'E', "Flamberge", "Weapon Sword", 0x0820, 0x0, 0, 'N', 0x20626639, 0, IDB_ITEM_FLAMBERGE, 1301, 2, 8, 0x3, 2, 4, 4, ' ', 50
, 125, 94, 0, 2, 19, 35, 26, 54, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "Executioner Sword", 'E', "Great Sword", "Weapon Sword", 0x0830, 0x0, 0, 'N', 0x20646739, 0, IDB_ITEM_GREATSWORD, 1301, 2, 8, 0x3, 2
, 4, 4, ' ', 50, 170, 110, 0, 2, 24, 40, 45, 80, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "Poignard", 'E', "Dagger", "Weapon Dagger", 0x0840, 0x0, 0, 'N', 0x20676439, 0, IDB_ITEM_DAGGER, 1307, 2, 8, 0x3, 1, 2, 4, ' ', 16, 25, 0, 0
, 1, 6, 18, 6, 19, 0, 0, 100, 0, 0, 1, 'W', 0, 0 },
{ "Rondel", 'E', "Dirk", "Weapon Dagger", 0x0850, 0x0, 0, 'N', 0x20696439, 0, IDB_ITEM_DIRK, 1307, 2, 8, 0x3, 1, 2, 4, ' ', 20, 25, 58, 0, 1, 10
, 22, 10, 24, 0, 0, 100, 0, 0, 1, 'W', 0, 0 },
{ "Ciquedeas", 'E', "Kris", "Weapon Dagger", 0x0860, 0x0, 0, 'N', 0x20726B39, 0, IDB_ITEM_KRIS, 1307, 2, 8, 0x3, 1, 3, 4, ' ', 24, 25, 88, 0, 1
, 8, 26, 8, 27, 0, 0, 100, 0, 0, 2, 'W', 0, 0 },
{ "Stiletto", 'E', "Blade", "Weapon Dagger", 0x0870, 0x0, 0, 'N', 0x206C6239, 0, IDB_ITEM_BLADE, 1307, 2, 8, 0x3, 1, 3, 4, ' ', 24, 73, 97, 0,
1, 11, 30, 11, 32, 0, 0, 100, 0, 0, 1, 'W', 0, 0 },
{ "Battle Dart", 'E', "Throwing Knife", "Weapon Throwing", 0x0880, 0x0, 0, 'N', 0x206B7439, 0, IDB_ITEM_THROWINGKNIFE, 1308, 0, 0, 0x1
, 1, 2, 4, ' ', 0, 25, 52, 0, 1, 8, 16, 8, 18, 11, 24, 100, 0, 0, 0, ' ', 75, 0 },
{ "Francisca", 'E', "Throwing Axe", "Weapon Throwing", 0x0890, 0x0, 0, 'N', 0x20617439, 0, IDB_ITEM_THROWINGAXE, 1308, 0, 0, 0x1, 1, 2, 4
, ' ', 0, 25, 97, 0, 1, 11, 22, 11, 24, 18, 29, 100, 0, 0, 0, ' ', 32, 0 },
{ "War Dart", 'E', "Balanced Knife", "Weapon Throwing", 0x08A0, 0x0, 0, 'N', 0x206B6239, 0, IDB_ITEM_BALANCEDKNIFE, 1308, 0, 0, 0x1, 1,
2, 4, ' ', 0, 25, 80, 0, 1, 6, 24, 13, 26, 14, 27, 100, 0, 0, 0, ' ', 60, 0 },
{ "Hurlbat", 'E', "Balanced Axe", "Weapon Throwing", 0x08B0, 0x0, 0, 'N', 0x20386239, 0, IDB_ITEM_BALANCEDAXE, 1308, 0, 0, 0x1, 2, 3, 4, '
', 0, 25, 106, 0, 1, 13, 27, 13, 29, 24, 34, 100, 0, 0, 0, ' ', 24, 0 },
{ "War Javelin", 'E', "Javelin", "Weapon Javelin", 0x08C0, 0x0, 0, 'N', 0x20616A39, 0, IDB_ITEM_JAVELIN, 1304, 0, 0, 0x1, 1, 3, 4, 'A', 0, 2
5, 25, 0, 1, 6, 19, 6, 21, 14, 32, 100, 0, 0, 0, ' ', 60, 0 },
{ "Great Pilum", 'E', "Pilum", "Weapon Javelin", 0x08D0, 0x0, 0, 'N', 0x20697039, 0, IDB_ITEM_PILUM, 1304, 0, 0, 0x1, 1, 3, 4, 'A', 0, 25, 88
, 0, 1, 11, 26, 11, 27, 16, 42, 100, 0, 0, 0, ' ', 50, 0 },
{ "Simbilan", 'E', "Short Spear", "Weapon Javelin", 0x08E0, 0x0, 0, 'N', 0x20397339, 0, IDB_ITEM_SHORTSPEAR, 1304, 0, 0, 0x1, 1, 3, 4, 'A'
, 0, 80, 80, 0, 1, 8, 32, 8, 34, 27, 50, 100, 0, 0, 0, ' ', 40, 0 },
{ "Spiculum", 'E', "Glaiive", "Weapon Javelin", 0x08F0, 0x0, 0, 'N', 0x206C6739, 0, IDB_ITEM_GLAIVE, 1304, 0, 0, 0x1, 1, 4, 4, 'A', 0, 93, 73,
0, 1, 13, 38, 13, 40, 8, 26, 100, 0, 0, 0, ' ', 20, 0 },
{ "Harpoon", 'E', "Throwing Spear", "Weapon Javelin", 0x0900, 0x0, 0, 'N', 0x20737439, 0, IDB_ITEM_THROWINGSPEAR, 1304, 0, 0, 0x1, 1, 4,
4, 'A', 0, 25, 118, 0, 1, 13, 35, 13, 37, 18, 54, 100, 0, 0, 0, ' ', 80, 0 },
{ "War Spear", 'E', "Spear", "Weapon Spear", 0x0910, 0x0, 0, 'N', 0x20727339, 0, IDB_ITEM_SPEAR, 1305, 2, 64, 0x1, 2, 4, 4, ' ', 30, 0, 0, 0, 2
, 10, 35, 10, 37, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "Fuscina", 'E', "Trident", "Weapon Spear", 0x0920, 0x0, 0, 'N', 0x20727439, 0, IDB_ITEM_TRIDENT, 1305, 2, 64, 0x3, 2, 4, 4, ' ', 35, 77, 0,
0, 2, 19, 35, 19, 37, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "War Fork", 'E', "Brandistock", "Weapon Spear", 0x0930, 0x0, 0, 'N', 0x20726239, 0, IDB_ITEM_BRANDISTOCK, 1305, 2, 64, 0x3, 2, 4, 4, ' '
, 28, 80, 95, 0, 2, 16, 38, 16, 40, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "Yari", 'E', "Spetum", "Weapon Spear", 0x0940, 0x0, 0, 'N', 0x20747339, 0, IDB_ITEM_SPETUM, 1305, 2, 64, 0x3, 2, 4, 4, ' ', 28, 0, 28, 0, 2, 2
9, 45, 29, 46, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "Lance", 'E', "Pike", "Weapon Spear", 0x0950, 0x0, 0, 'N', 0x20397039, 0, IDB_ITEM_PIKE, 1305, 2, 64, 0x3, 2, 4, 4, ' ', 25, 110, 88, 0, 2, 27

```

```

,112,27,114,0,0,100,0,0,3,'W',0,0 },
{ "Lochaber Axe", 'E', "Bardiche", "Weapon Polearm", 0x0960, 0x0, 0, 'N', 0x20376239, 0, IDB_ITEM_BARDICHE, 1306, 2, 64, 0x3, 2, 4, 4, ' ', 50, 80, 0, 0, 2, 6, 51, 6, 56, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "Bill", 'E', "Voulge", "Weapon Polearm", 0x0970, 0x0, 0, 'N', 0x206F7639, 0, IDB_ITEM_VOULGE, 1306, 2, 64, 0x3, 2, 4, 4, ' ', 50, 95, 0, 0, 2, 14, 43, 14, 45, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "Battle Scythe", 'E', "Scythe", "Weapon Polearm", 0x0980, 0x0, 0, 'N', 0x20387339, 0, IDB_ITEM_SCYTHE, 1306, 2, 64, 0x3, 2, 4, 4, ' ', 65, 82, 82, 0, 2, 18, 43, 18, 45, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "Partizan", 'E', "Pole Axe", "Weapon Polearm", 0x0990, 0x0, 0, 'N', 0x20617039, 0, IDB_ITEM_POLEAXE, 1306, 2, 64, 0x3, 2, 4, 4, ' ', 65, 113, 0, 0, 2, 34, 59, 34, 61, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "Bec-De-Corbin", 'E', "Halberd", "Weapon Polearm", 0x09A0, 0x0, 0, 'N', 0x20396839, 0, IDB_ITEM_HALBERD, 1306, 2, 64, 0x3, 2, 4, 4, ' ', 55, 133, 91, 0, 2, 24, 67, 24, 77, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "Grim Scythe", 'E', "War Scythe", "Weapon Polearm", 0x09B0, 0x0, 0, 'N', 0x20637739, 0, IDB_ITEM_WARSCYTHE, 1306, 2, 64, 0x3, 2, 4, 4, ' ', 55, 140, 140, 0, 2, 29, 62, 29, 64, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "Jo Staff", 'E', "Short Staff", "Weapon Staff", 0x09C0, 0x0, 0, 'N', 0x20737338, 0, IDB_ITEM_SHORTSTAFF, 1313, 64, 512, 0x3, 1, 3, 4, 'S', 20, 0, 0, 0, 2, 6, 19, 6, 21, 0, 0, 100, 0, 0, 2, 'W', 0, 0 },
{ "Quarterstaff", 'E', "Long Staff", "Weapon Staff", 0x09D0, 0x0, 0, 'N', 0x20736C38, 0, IDB_ITEM_LONGSTAFF, 1313, 64, 512, 0x3, 1, 4, 4, 'S', 30, 0, 0, 0, 2, 8, 24, 8, 26, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "Cedar Staff", 'E', "Gnarled Staff", "Weapon Staff", 0x09E0, 0x0, 0, 'N', 0x20736338, 0, IDB_ITEM_GNARLEDSTAFF, 1313, 64, 512, 0x3, 1, 4, 4, 'S', 35, 0, 0, 0, 2, 11, 30, 11, 32, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "Gothic Staff", 'E', "Battle Staff", "Weapon Staff", 0x09F0, 0x0, 0, 'N', 0x20736238, 0, IDB_ITEM_BATTLESTAFF, 1313, 64, 512, 0x3, 1, 4, 4, 'S', 40, 0, 0, 0, 2, 14, 32, 14, 34, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "Rune Staff", 'E', "War Staff", "Weapon Staff", 0x0AA0, 0x0, 0, 'N', 0x20737738, 0, IDB_ITEM_WARSTAFF, 1313, 64, 512, 0x3, 2, 4, 4, 'S', 50, 25, 0, 0, 2, 24, 56, 24, 58, 0, 0, 100, 0, 0, 3, 'W', 0, 0 },
{ "Edge Bow", 'E', "Short Bow", "Weapon Bow", 0x0A10, 0x0, 0, 'N', 0x20627338, 0, IDB_ITEM_SHORTBOW, 1309, 128, 1024, 0x3, 2, 3, 4, ' ', 0, 25, 43, 0, 2, 6, 18, 6, 19, 6, 19, 100, 0, 0, 3, 'W', 0, 0 },
{ "Razor Bow", 'E', "Hunter's Bow", "Weapon Bow", 0x0A20, 0x0, 0, 'N', 0x20626838, 0, IDB_ITEM_HUNTERS_BOW, 1309, 128, 1024, 0x3, 2, 3, 4, ' ', 0, 0, 62, 0, 2, 8, 22, 8, 22, 8, 21, 100, 0, 0, 3, 'W', 0, 0 },
{ "Cedar Bow", 'E', "Long Bow", "Weapon Bow", 0x0A30, 0x0, 0, 'N', 0x20626C38, 0, IDB_ITEM_LONGBOW, 1309, 128, 1024, 0x3, 2, 4, 4, ' ', 0, 5, 3, 49, 0, 2, 10, 27, 10, 29, 9, 26, 100, 0, 0, 3, 'W', 0, 0 },
{ "Double Bow", 'E', "Composite Bow", "Weapon Bow", 0x0A40, 0x0, 0, 'N', 0x20626338, 0, IDB_ITEM_COMPOSITE_BOW, 1309, 128, 1024, 0x3, 2, 3, 4, ' ', 0, 58, 73, 0, 2, 11, 24, 11, 26, 11, 21, 100, 0, 0, 3, 'W', 0, 0 },
{ "Short Siege Bow", 'E', "Short Battle Bow", "Weapon Bow", 0x0A50, 0x0, 0, 'N', 0x20387338, 0, IDB_ITEM_SHORT_BATTLE_BOW, 1309, 128, 1024, 0x3, 2, 3, 4, ' ', 0, 65, 80, 0, 2, 13, 29, 13, 30, 12, 26, 100, 0, 0, 3, 'W', 0, 0 },
{ "Long Siege Bow", 'E', "Long Battle Bow", "Weapon Bow", 0x0A60, 0x0, 0, 'N', 0x20386C38, 0, IDB_ITEM_LONGBATTLE_BOW, 1309, 128, 1024, 0x3, 2, 4, 4, ' ', 0, 80, 95, 0, 2, 10, 40, 10, 42, 9, 36, 100, 0, 0, 3, 'W', 0, 0 },
{ "Rune Bow", 'E', "Short War Bow", "Weapon Bow", 0x0A70, 0x0, 0, 'N', 0x20777338, 0, IDB_ITEM_SHORTWAR_BOW, 1309, 128, 1024, 0x3, 2, 3, 4, ' ', 0, 73, 103, 0, 2, 14, 34, 14, 35, 14, 30, 100, 0, 0, 3, 'W', 0, 0 },
{ "Gothic Bow", 'E', "Long War Bow", "Weapon Bow", 0x0A80, 0x0, 0, 'N', 0x20776C38, 0, IDB_ITEM_LONGWAR_BOW, 1309, 128, 1024, 0x3, 2, 4, 4, ' ', 0, 95, 118, 0, 2, 10, 48, 10, 50, 9, 44, 100, 0, 0, 3, 'W', 0, 0 },
{ "Arbalest", 'E', "Repeating Crossbow", "Weapon Crossbow", 0x0A90, 0x0, 0, 'N', 0x20786C38, 0, IDB_ITEM_LIGHTCROSSBOW, 1310, 128, 1024, 0x3, 2, 3, 4, ' ', 0, 80, 95, 0, 2, 14, 26, 14, 27, 14, 23, 100, 0, 0, 3, 'W', 0, 0 },
{ "Siege Crossbow", 'E', "Light Crossbow", "Weapon Crossbow", 0x0AA0, 0x0, 0, 'N', 0x20786D38, 0, IDB_ITEM_CROSSBOW, 1310, 128, 1024, 0x3, 2, 3, 4, ' ', 0, 52, 61, 0, 2, 19, 34, 19, 35, 18, 30, 100, 0, 0, 3, 'W', 0, 0 },
{ "Ballista", 'E', "Crossbow", "Weapon Crossbow", 0x0AB0, 0x0, 0, 'N', 0x20786838, 0, IDB_ITEM_HEAVY_CROSSBOW, 1310, 128, 1024, 0x3, 2, 4, 4, ' ', 0, 80, 70, 0, 2, 24, 43, 24, 45, 23, 39, 100, 0, 0, 3, 'W', 0, 0 },
{ "Chu-Ko-Nu", 'E', "Heavy Crossbow", "Weapon Crossbow", 0x0AC0, 0x0, 0, 'N', 0x20787238, 0, IDB_ITEM_REPEATING_CROSSBOW, 1310, 128, 1024, 0x3, 2, 3, 4, ' ', 0, 110, 80, 0, 2, 14, 30, 14, 32, 14, 27, 100, 0, 0, 3, 'W', 0, 0 },
{ "Khalim's Flail", 'Q', "KhalimFlail", "Special Weapon", 0x0AD0, 0x0, 0, 'N', 0x20316671, 0, IDB_ITEM_KHALIMSFLAIL, 30003, 2, 32, 0x3, 2, 3, 4, ' ', 0, 35, 25, 0, 2, 1, 15, 1, 15, 0, 0, 150, 0, 0, 0, ' ', 0, 0 },
{ "Khalim's Will", 'Q', "SuperKhalimFlail", "Special Weapon", 0x0AE0, 0x0, 0, 'N', 0x20326671, 0, IDB_ITEM_KHALIMSWILL, 30003, 2, 32, 0x3, 2, 3, 4, ' ', 0, 0, 0, 0, 2, 1, 15, 1, 15, 0, 0, 150, 0, 0, 0, ' ', 0, 0 },
{ "Cap", 'N', 0, "Helm", 0x0AF0, 0x0, 0, 'N', 0x20706163, 0, IDB_ITEM_CAP, 2100, 1, 2, 0xF, 2, 2, 1, ' ', 12, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 3, 5, 2, 'H', 0, 0 },
{ "Infernal Cranium", 'S', "Cap", "Helm", 0x0AF0, 0x14, 0, 'S', 0x20706163, 0, IDB_ITEM_INFERNALCRANIUM, 20010, 0, 0, 0xF, 2, 2, 1, ' ', 24, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 3, 5, 2, 'H', 0, 0 },
{ "Biggin's Bonnet", 'U', "Cap", "Helm", 0x0AF0, 0x8E, 0, 'U', 0x20706163, 0, IDB_ITEM_WARBONNET, 2200, 0, 0, 0xF, 2, 2, 1, ' ', 60, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 3, 5, 2, 'H', 0, 0 },
{ "Skull Cap", 'N', 0, "Helm", 0x0B00, 0x0, 0, 'N', 0x20706B73, 0, IDB_ITEM_SKULLCAP, 2100, 1, 2, 0xF, 2, 2, 1, ' ', 18, 15, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 8, 11, 2, 'H', 0, 0 },
{ "Arcanna's Head", 'S', "Skull Cap", "Helm", 0x0B00, 0x1E, 0, 'S', 0x20706B73, 0, IDB_ITEM_ARCANNASHEAD, 20002, 0, 0, 0xF, 2, 2, 1, ' ', 3, 6, 35, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 8, 11, 2, 'H', 0, 0 },
{ "Tarnhelm", 'U', "Skull Cap", "Helm", 0x0B00, 0x90, 0, 'U', 0x20706B73, 0, IDB_ITEM_TARNHELM, 2200, 0, 0, 0xF, 2, 2, 1, ' ', 90, 15, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 8, 11, 2, 'H', 0, 0 },
{ "Helm", 'N', 0, "Helm", 0x0B10, 0x0, 0, 'N', 0x206D6C68, 0, IDB_ITEM_HELM, 2100, 1, 2, 0xF, 2, 2, 1, ' ', 24, 26, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 15, 18, 2, 'H', 0, 0 },
{ "Berserker's Headgear", 'S', "Helm", "Helm", 0x0B10, 0x16, 0, 'S', 0x206D6C68, 0, IDB_ITEM_BERSERKERSHEADGEAR, 20004, 0, 0, 0xF, 2, 2, 1, ' ', 48, 26, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 15, 18, 2, 'H', 0, 0 },
{ "Coif of Glory", 'U', "Helm", "Helm", 0x0B10, 0x92, 0, 'U', 0x206D6C68, 0, IDB_ITEM_COIFOFGLORY, 2200, 0, 0, 0xF, 2, 2, 1, ' ', 120, 26, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 15, 18, 2, 'H', 0, 0 },
{ "Full Helm", 'N', 0, "Helm", 0x0B20, 0x0, 0, 'N', 0x206C6866, 0, IDB_ITEM_FULLHELM, 2100, 1, 2, 0xF, 2, 2, 1, ' ', 30, 41, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 23, 26, 2, 'H', 0, 0 },
{ "Isenhart's Horns", 'S', "Full Helm", "Helm", 0x0B20, 0x08, 0, 'S', 0x206C6866, 0, IDB_ITEM_ISENHARTSHORNS, 20012, 0, 0, 0xF, 2, 2, 1, ' ', 60, 41, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 23, 26, 2, 'H', 0, 0 },
{ "Duskdeep", 'U', "Full Helm", "Helm", 0x0B20, 0x94, 0, 'U', 0x206C6866, 0, IDB_ITEM_DUSKDEEP, 2200, 0, 0, 0xF, 2, 2, 1, ' ', 150, 41, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 23, 26, 2, 'H', 0, 0 },
{ "Great Helm", 'N', 0, "Helm", 0x0B30, 0x0, 0, 'N', 0x206D6867, 0, IDB_ITEM_GREATHELM, 2100, 1, 2, 0xF, 2, 2, 1, ' ', 40, 63, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 30, 35, 2, 'H', 0, 0 },
{ "Sigon's Visor", 'S', "Great Helm", "Helm", 0x0B30, 0x12, 0, 'S', 0x206D6867, 0, IDB_ITEM_SIGONSVISOR, 20014, 0, 0, 0xF, 2, 2, 1, ' ', 80, 63, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 30, 35, 2, 'H', 0, 0 },

```

```

{ "Howltusk", 'U', "Great Helm", "Helm", 0x0B30, 0x98, 0, 'U', 0x206D6867, 0, IDB_ITEM_HOWLITUSK, 2200, 0, 0, 0xF, 2, 2, 1, ' ', 200, 63, 0, 0, 0, 0, 0, 0, 0, 0, 0, 30, 35, 2, 'H', 0, 0 },
{ "Crown", 'N', 0, "Helm", 0x0B40, 0x0, 0, 'N', 0x206E7263, 0, IDB_ITEM_CROWN, 2100, 1, 2, 0xF, 2, 2, 1, ' ', 50, 55, 0, 0, 0, 0, 0, 0, 0, 0, 0, 25, 45, 2, 'H', 0, 0 },
{ "Irattha's Coil", 'S', "Crown", "Helm", 0x0B40, 0x06, 0x0070, 'S', 0x206E7263, 0, IDB_ITEM_IRATHASCOIL, 20011, 0, 0, 0xF, 2, 2, 1, ' ', 10, 0, 55, 0, 0, 0, 0, 0, 0, 0, 0, 25, 45, 2, 'H', 0, 0 },
{ "Milabrega's Diadem", 'S', "Crown", "Helm", 0x0B40, 0x0C, 0xFF8F, 'S', 0x206E7263, 0, IDB_ITEM_MILABREGASDIADEM, 20013, 0, 0, 0xF, 2, 2, 1, ' ', 100, 55, 0, 0, 0, 0, 0, 0, 0, 0, 25, 45, 2, 'H', 0, 0 },
{ "Undead Crown", 'U', "Crown", "Helm", 0x0B40, 0x9A, 0, 'U', 0x206E7263, 0, IDB_ITEM_UNDEADCROWN, 2200, 0, 0, 0xF, 2, 2, 1, ' ', 250, 55, 0, 0, 0, 0, 0, 0, 0, 0, 25, 45, 2, 'H', 0, 0 },
{ "Mask", 'N', 0, "Helm", 0x0B50, 0x0, 0, 'N', 0x206B736D, 0, IDB_ITEM_MASK, 2100, 1, 2, 0xF, 2, 2, 1, ' ', 20, 23, 0, 0, 0, 0, 0, 0, 0, 0, 0, 9, 27, 2, 'H', 0, 0 },
{ "Cathan's Visage", 'S', "Mask", "Helm", 0x0B50, 0x0E, 0, 'S', 0x206B736D, 0, IDB_ITEM_MASK, 20005, 0, 0, 0xF, 2, 2, 1, ' ', 60, 23, 0, 0, 0, 0, 0, 0, 0, 0, 0, 9, 27, 2, 'H', 0, 0 },
{ "The Face of Horror", 'U', "Mask", "Helm", 0x0B50, 0x9C, 0, 'U', 0x206B736D, 0, IDB_ITEM_MASK, 2200, 0, 0, 0xF, 2, 2, 1, ' ', 100, 23, 0, 0, 0, 0, 0, 0, 0, 0, 0, 9, 27, 2, 'H', 0, 0 },
{ "Quilted Armor", 'N', 0, "Armor", 0x0B60, 0x0, 0, 'N', 0x20697571, 0, IDB_ITEM_QUILTED, 3100, 1, 1, 0xF, 2, 3, 3, ' ', 20, 12, 0, 0, 0, 0, 0, 0, 0, 0, 0, 8, 11, 0, ' ', 0, 0 },
{ "Arctic Furs", 'S', "Quilted Armor", "Armor", 0x0B60, 0x1C, 0, 'S', 0x20697571, 0, IDB_ITEM_ARCTICFURS, 20003, 0, 0, 0xF, 2, 3, 3, ' ', 4, 0, 12, 0, 0, 0, 0, 0, 0, 0, 0, 8, 11, 0, ' ', 0, 0 },
{ "Greyform", 'U', "Quilted Armor", "Armor", 0x0B60, 0x9E, 0, 'U', 0x20697571, 0, IDB_ITEM_GREYFORM, 3200, 0, 0, 0xF, 2, 3, 3, ' ', 100, 12, 0, 0, 0, 0, 0, 0, 0, 0, 0, 8, 11, 0, ' ', 0, 0 },
{ "Leather Armor", 'N', 0, "Armor", 0x0B70, 0x0, 0, 'N', 0x2061656C, 0, IDB_ITEM_LEATHER, 3100, 1, 1, 0xF, 2, 3, 3, ' ', 24, 15, 0, 0, 0, 0, 0, 0, 0, 0, 0, 14, 17, 0, ' ', 0, 0 },
{ "Vidala's Ambush", 'S', "Leather Armor", "Armor", 0x0B70, 0x0A, 0, 'S', 0x2061656C, 0, IDB_ITEM VIDALASAMBUSH, 20016, 0, 0, 0xF, 2, 3, 3, ' ', 48, 15, 0, 0, 0, 0, 0, 0, 0, 0, 0, 14, 17, 0, ' ', 0, 0 },
{ "Blinkbat's Form", 'U', "Leather Armor", "Armor", 0x0B70, 0xA0, 0, 'U', 0x2061656C, 0, IDB_ITEM_BLINKBATSFOR, 3200, 0, 0, 0xF, 2, 3, 3, ' ', 120, 15, 0, 0, 0, 0, 0, 0, 0, 0, 0, 14, 17, 0, ' ', 0, 0 },
{ "Hard Leather Armor", 'N', 0, "Armor", 0x0B80, 0x0, 0, 'N', 0x20616C68, 0, IDB_ITEM_HARDLEATHER, 3100, 1, 1, 0xF, 2, 3, 3, ' ', 28, 20, 0, 0, 0, 0, 0, 0, 0, 0, 0, 21, 24, 0, ' ', 0, 0 },
{ "The Centurion", 'U', "Hard Leather Armor", "Armor", 0x0B80, 0xA2, 0, 'U', 0x20616C68, 0, IDB_ITEM_THECENTURION, 3200, 0, 0, 0xB, 2, 3, 3, ' ', 100, 20, 0, 0, 0, 0, 0, 0, 0, 0, 0, 21, 24, 0, ' ', 0, 0 },
{ "Studded Leather", 'N', 0, "Armor", 0x0B90, 0x0, 0, 'N', 0x20757473, 0, IDB_ITEM_STUDDLEATHER, 3100, 1, 1, 0xB, 2, 3, 3, ' ', 32, 27, 0, 0, 0, 0, 0, 0, 0, 0, 0, 32, 35, 0, ' ', 0, 0 },
{ "Twitchthroe", 'U', "Studded Leather", "Armor", 0x0B90, 0xA4, 0, 'U', 0x20757473, 0, IDB_ITEM_TWITCHTHROE, 3200, 0, 0, 0xF, 2, 3, 3, ' ', 160, 27, 0, 0, 0, 0, 0, 0, 0, 0, 0, 32, 35, 0, ' ', 0, 0 },
{ "Ring Mail", 'N', 0, "Armor", 0x0BA0, 0x0, 0, 'N', 0x20676E72, 0, IDB_ITEM_RINGMAIL, 3100, 1, 1, 0xF, 2, 3, 3, ' ', 26, 27, 0, 0, 0, 0, 0, 0, 0, 0, 0, 45, 48, 0, ' ', 0, 0 },
{ "Angelial Mantle", 'S', "Ring Mail", "Armor", 0x0BA0, 0x1A, 0, 'S', 0x20676E72, 0, IDB_ITEM_CHAINMAIL, 20001, 0, 0, 0xF, 2, 3, 3, ' ', 1, 20, 65, 0, 0, 0, 0, 0, 0, 0, 0, 0, 45, 48, 0, ' ', 0, 0 },
{ "Darkglow", 'U', "Ring Mail", "Armor", 0x0BA0, 0xA6, 0, 'U', 0x20676E72, 0, IDB_ITEM_DARKGLOW, 3200, 0, 0, 0xF, 2, 3, 3, ' ', 130, 36, 0, 0, 0, 0, 0, 0, 0, 0, 0, 45, 48, 0, ' ', 0, 0 },
{ "Scale Mail", 'N', 0, "Armor", 0x0BB0, 0x0, 0, 'N', 0x206C6373, 0, IDB_ITEM_SCALEMAIL, 3100, 1, 1, 0xF, 2, 3, 3, ' ', 36, 36, 0, 0, 0, 0, 0, 0, 0, 0, 0, 57, 60, 0, ' ', 0, 0 },
{ "Hawkmail", 'U', "Scale Mail", "Armor", 0x0BB0, 0xA8, 0, 'U', 0x206C6373, 0, IDB_ITEM_HAWKMAIL, 3200, 0, 0, 0xF, 2, 3, 3, ' ', 180, 44, 0, 0, 0, 0, 0, 0, 0, 0, 0, 57, 60, 0, ' ', 0, 0 },
{ "Chain Mail", 'N', 0, "Armor", 0x0BC0, 0x0, 0, 'N', 0x206E6863, 0, IDB_ITEM_CHAINMAIL, 3100, 1, 1, 0xF, 2, 3, 3, ' ', 45, 48, 0, 0, 0, 0, 0, 0, 0, 0, 0, 72, 75, 0, ' ', 0, 0 },
{ "Cathan's Mesh", 'S', "Chain Mail", "Armor", 0x0BC0, 0x0E, 0, 'S', 0x206E6863, 0, IDB_ITEM_CATHANSMESH, 20005, 0, 0, 0xF, 2, 3, 3, ' ', 9, 0, 24, 0, 0, 0, 0, 0, 0, 0, 0, 72, 75, 0, ' ', 0, 0 },
{ "Sparkling Mail", 'U', "Chain Mail", "Armor", 0x0BC0, 0xAA, 0, 'U', 0x206E6863, 0, IDB_ITEM_SPARKLINGMAIL, 3200, 0, 0, 0xF, 2, 3, 3, ' ', 250, 30, 0, 0, 0, 0, 0, 0, 0, 0, 0, 72, 75, 0, ' ', 0, 0 },
{ "Breast Plate", 'N', 0, "Armor", 0x0BD0, 0x0, 0, 'N', 0x20737262, 0, IDB_ITEM_BREASTPLATE, 3100, 1, 1, 0xF, 2, 3, 3, ' ', 50, 30, 0, 0, 0, 0, 0, 0, 0, 0, 0, 65, 68, 0, ' ', 0, 0 },
{ "Isenhardt's Case", 'S', "Breast Plate", "Armor", 0x0BD0, 0x08, 0, 'S', 0x20737262, 0, IDB_ITEM_ISENHARTSCASE, 20012, 0, 0, 0xF, 2, 3, 3, ' ', 100, 30, 0, 0, 0, 0, 0, 0, 0, 0, 0, 65, 68, 0, ' ', 0, 0 },
{ "Venomsward", 'U', "Breast Plate", "Armor", 0x0BD0, 0xAC, 0, 'U', 0x20737262, 0, IDB_ITEM_VENOMSWARD, 3200, 0, 0, 0xF, 2, 3, 3, ' ', 225, 48, 0, 0, 0, 0, 0, 0, 0, 0, 0, 65, 68, 0, ' ', 0, 0 },
{ "Splint Mail", 'N', 0, "Armor", 0x0BE0, 0x0, 0, 'N', 0x206C7073, 0, IDB_ITEM_SPLINTMAIL, 3100, 1, 1, 0xF, 2, 3, 3, ' ', 30, 51, 0, 0, 0, 0, 0, 0, 0, 0, 0, 90, 95, 0, ' ', 0, 0 },
{ "Berserker's Hauberk", 'S', "Splint Mail", "Armor", 0x0BE0, 0x16, 0, 'S', 0x206C7073, 0, IDB_ITEM_BERSERKERSHAUBERK, 20004, 0, 0, 0xF, 2, 3, 3, ' ', 60, 51, 0, 0, 0, 0, 0, 0, 0, 0, 0, 90, 95, 0, ' ', 0, 0 },
{ "Iceblink", 'U', "Splint Mail", "Armor", 0x0BE0, 0xAE, 0, 'U', 0x206C7073, 0, IDB_ITEM_ICEBLINK, 3200, 0, 0, 0xF, 2, 3, 3, ' ', 150, 51, 0, 0, 0, 0, 0, 0, 0, 0, 0, 90, 95, 0, ' ', 0, 0 },
{ "Plate Mail", 'N', 0, "Armor", 0x0BF0, 0x0, 0, 'N', 0x20746C70, 0, IDB_ITEM_PLATEMAIL, 3100, 1, 1, 0xB, 2, 3, 3, ' ', 60, 65, 0, 0, 0, 0, 0, 0, 0, 0, 0, 108, 116, 0, ' ', 0, 0 },
{ "Boneflesh", 'U', "Plate Mail", "Armor", 0x0BF0, 0xB0, 0, 'U', 0x20746C70, 0, IDB_ITEM_BONEFLESH, 3200, 0, 0, 0xB, 2, 3, 3, ' ', 255, 65, 0, 0, 0, 0, 0, 0, 0, 0, 0, 108, 116, 0, ' ', 0, 0 },
{ "Field Plate", 'N', 0, "Armor", 0x0C00, 0x0, 0, 'N', 0x20646C66, 0, IDB_ITEM_FIELDPLATE, 3100, 1, 1, 0xB, 2, 3, 3, ' ', 48, 55, 0, 0, 0, 0, 0, 0, 0, 0, 0, 101, 105, 0, ' ', 0, 0 },
{ "Rockfleece", 'U', "Field Plate", "Armor", 0x0C00, 0xB2, 0, 'U', 0x20646C66, 0, IDB_ITEM_ROCKFLEECE, 3200, 0, 0, 0xB, 2, 3, 3, ' ', 240, 5, 0, 0, 0, 0, 0, 0, 0, 0, 0, 101, 105, 0, ' ', 0, 0 },
{ "Gothic Plate", 'N', 0, "Armor", 0x0C10, 0x0, 0, 'N', 0x20687467, 0, IDB_ITEM_GOTHICPLATE, 3100, 1, 1, 0xF, 2, 3, 3, ' ', 55, 70, 0, 0, 0, 0, 0, 0, 0, 0, 0, 128, 135, 0, ' ', 0, 0 },
{ "Sigon's Shelter", 'S', "Gothic Plate", "Armor", 0x0C10, 0x12, 0, 'S', 0x20687467, 0, IDB_ITEM_SIGONSSHELTER, 20014, 0, 0, 0xF, 2, 3, 3, ' ', 110, 70, 0, 0, 0, 0, 0, 0, 0, 0, 0, 128, 135, 0, ' ', 0, 0 },
{ "Rattlecage", 'U', "Gothic Plate", "Armor", 0x0C10, 0xB4, 0, 'U', 0x20687467, 0, IDB_ITEM_RATTLECAGE, 3200, 0, 0, 0xF, 2, 3, 3, ' ', 255, 70, 0, 0, 0, 0, 0, 0, 0, 0, 0, 128, 135, 0, ' ', 0, 0 },
{ "Full Plate", 'N', 0, "Armor", 0x0C20, 0x0, 0, 'N', 0x206C7566, 0, IDB_ITEM_FULLPLATE, 3100, 1, 1, 0xF, 2, 3, 3, ' ', 70, 80, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0 }

```



```

{ "Sigon's Gage", 'S', "Gauntlets", "Gloves", 0x0CF0, 0x12, 0, 'S', 0x206C6768, 0, IDB_ITEM_SIGONSGAUNTLETS, 20014, 0, 0, 0xF, 2, 2, 10, '
', 48, 60, 0, 0, 0, 0, 0, 0, 0, 0, 12, 15, 0, ' ', 0, 0 },
{ "Frostburn", 'U', "Gauntlets", "Gloves", 0x0CF0, 0xD4, 0, 'U', 0x206C6768, 0, IDB_ITEM_FROSTBURN, 5200, 0, 0, 0xF, 2, 2, 10, ' ', 120, 60,
0, 0, 0, 0, 0, 0, 0, 0, 0, 12, 15, 0, ' ', 0, 0 },
{ "Boots", 'N', 0, "Boots", 0x0D00, 0x0, 0, 'N', 0x2074626C, 0, IDB_ITEM_LEATHERBOOTS, 6100, 256, 2048, 0xF, 2, 2, 9, ' ', 12, 0, 0, 0, 0, 0, 0,
0, 0, 0, 0, 2, 3, 0, ' ', 0, 0 },
{ "Tancred's Hobnails", 'S', "Boots", "Boots", 0x0D00, 0x10, 0, 'S', 0x2074626C, 0, IDB_ITEM_TANCREDSHOBNAI, 20015, 0, 0, 0xF, 2, 2, 9, '
', 24, 24, 0, 0, 0, 0, 0, 0, 0, 0, 2, 3, 0, ' ', 0, 0 },
{ "Hotspur", 'U', "Boots", "Boots", 0x0D00, 0xD6, 0, 'U', 0x2074626C, 0, IDB_ITEM_HOTSPUR, 6200, 0, 0, 0xF, 2, 2, 9, ' ', 60, 0, 0, 0, 0, 0, 0,
0, 0, 0, 0, 2, 3, 0, ' ', 0, 0 },
{ "Heavy Boots", 'N', 0, "Boots", 0x0D10, 0x0, 0, 'N', 0x20746276, 0, IDB_ITEM_HEAVYBOOTS, 6100, 256, 2048, 0xB, 2, 2, 9, ' ', 14, 18, 0, 0, 0,
0, 0, 0, 0, 0, 0, 5, 6, 0, ' ', 0, 0 },
{ "Gorefoot", 'U', "Heavy Boots", "Boots", 0x0D10, 0xD8, 0, 'U', 0x20746276, 0, IDB_ITEM_GOREFOOT, 6200, 0, 0, 0xB, 2, 2, 9, ' ', 70, 18, 0, 0,
0, 0, 0, 0, 0, 0, 5, 6, 0, ' ', 0, 0 },
{ "Chain Boots", 'N', 0, "Boots", 0x0D20, 0x0, 0, 'N', 0x2074626D, 0, IDB_ITEM_CHAINBOOTS, 6100, 256, 2048, 0xF, 2, 2, 9, ' ', 16, 30, 0, 0, 0,
0, 0, 0, 0, 0, 0, 8, 9, 0, ' ', 0, 0 },
{ "Hsarus' Iron Heel", 'S', "Chain Boots", "Boots", 0x0D20, 0x02, 0, 'S', 0x2074626D, 0, IDB_ITEM_HSARUSIRONHEEL, 20009, 0, 0, 0xF, 2, 2,
9, ' ', 32, 30, 0, 0, 0, 0, 0, 0, 0, 0, 8, 9, 0, ' ', 0, 0 },
{ "Treads of Cthon", 'U', "Chain Boots", "Boots", 0x0D20, 0xDA, 0, 'U', 0x2074626D, 0, IDB_ITEM_TREADSOFCTHON, 6200, 0, 0, 0xF, 2, 2, 9, '
', 80, 30, 0, 0, 0, 0, 0, 0, 0, 0, 8, 9, 0, ' ', 0, 0 },
{ "Light Plate", 'N', 0, "Boots", 0x0D30, 0x0, 0, 'N', 0x20746274, 0, IDB_ITEM_LIGHTPLATEBOOTS, 6100, 256, 2048, 0xF, 2, 2, 9, ' ', 18, 50, 0,
0, 0, 0, 0, 0, 0, 0, 9, 11, 0, ' ', 0, 0 },
{ "Vidala's Fetlock", 'S', "Light Plate", "Boots", 0x0D30, 0x0A, 0, 'S', 0x20746274, 0, IDB_ITEM VIDALASFETLOCK, 20016, 0, 0, 0xF, 2, 2,
9, ' ', 30, 0, 0, 0, 0, 0, 0, 0, 0, 0, 9, 11, 0, ' ', 0, 0 },
{ "Goblin Toe", 'U', "Light Plate", "Boots", 0x0D30, 0xDC, 0, 'U', 0x20746274, 0, IDB_ITEM_GOBLINTOE, 6200, 0, 0, 0xF, 2, 2, 9, ' ', 90, 50,
0, 0, 0, 0, 0, 0, 0, 0, 9, 11, 0, ' ', 0, 0 },
{ "Greaves", 'N', 0, "Boots", 0x0D40, 0x0, 0, 'N', 0x20746268, 0, IDB_ITEM_PLATEBOOTS, 6100, 256, 2048, 0xF, 2, 2, 9, ' ', 24, 70, 0, 0, 0, 0, 0,
0, 0, 0, 0, 12, 15, 0, ' ', 0, 0 },
{ "Sigon's Sabot", 'S', "Greaves", "Boots", 0x0D40, 0x12, 0, 'S', 0x20746268, 0, IDB_ITEM_SIGONSGREAVES, 20014, 0, 0, 0xF, 2, 2, 9, ' ', 48,
70, 0, 0, 0, 0, 0, 0, 0, 0, 0, 12, 15, 0, ' ', 0, 0 },
{ "Tearhaunch", 'U', "Greaves", "Boots", 0x0D40, 0xDE, 0, 'U', 0x20746268, 0, IDB_ITEM_TEARHAUNCH, 6200, 0, 0, 0xF, 2, 2, 9, ' ', 120, 70, 0,
0, 0, 0, 0, 0, 0, 0, 12, 15, 0, ' ', 0, 0 },
{ "Sash", 'N', 0, "Belt", 0x0D50, 0x0, 0, 'N', 0x206C626C, 0, IDB_ITEM_SASH, 7100, 1024, 8192, 0xF, 2, 1, 8, ' ', 12, 0, 0, 0, 0, 0, 0, 0, 0, 0,
2, 2, 0, ' ', 0, 0 },
{ "Death's Guard", 'S', "Sash", "Belt", 0x0D50, 0x18, 0, 'S', 0x206C626C, 0, IDB_ITEM_DEATHSGUARD, 20008, 0, 0, 0xF, 2, 1, 8, ' ', 24, 0, 0, 0,
0, 0, 0, 0, 0, 0, 2, 2, 0, ' ', 0, 0 },
{ "Lenymo", 'U', "Sash", "Belt", 0x0D50, 0xE0, 0, 'U', 0x206C626C, 0, IDB_ITEM_LENYSKORD, 7200, 0, 0, 0xF, 2, 1, 8, ' ', 60, 0, 0, 0, 0, 0, 0, 0,
0, 0, 0, 0, 2, 2, 0, ' ', 0, 0 },
{ "Light Belt", 'N', 0, "Belt", 0x0D60, 0x0, 0, 'N', 0x206C6276, 0, IDB_ITEM_LIGHTBELT, 7100, 1024, 8192, 0xF, 2, 1, 8, ' ', 14, 0, 0, 0, 0, 0, 0,
0, 0, 0, 0, 3, 3, 0, ' ', 0, 0 },
{ "Arctic Binding", 'S', "Light Belt", "Belt", 0x0D60, 0x1C, 0, 'S', 0x206C6276, 0, IDB_ITEM_ARCTICBINDING, 20003, 0, 0, 0xF, 2, 1, 8, ' '
, 28, 0, 0, 0, 0, 0, 0, 0, 0, 0, 3, 3, 0, ' ', 0, 0 },
{ "Snakercord", 'U', "Light Belt", "Belt", 0x0D60, 0xE2, 0, 'U', 0x206C6276, 0, IDB_ITEM_SNAKERCORD, 7200, 0, 0, 0xF, 2, 1, 8, ' ', 70, 0, 0, 0,
0, 0, 0, 0, 0, 0, 3, 3, 0, ' ', 0, 0 },
{ "Belt", 'N', 0, "Belt", 0x0D70, 0x0, 0, 'N', 0x206C626D, 0, IDB_ITEM_BELT, 7100, 1024, 8192, 0xF, 2, 1, 8, ' ', 16, 25, 0, 0, 0, 0, 0, 0, 0, 0,
5, 5, 0, ' ', 0, 0 },
{ "Hsarus' Iron Stay", 'S', "Belt", "Belt", 0x0D70, 0x02, 0, 'S', 0x206C626D, 0, IDB_ITEM_HSARUSIRONSTAY, 20009, 0, 0, 0xF, 2, 1, 8, ' ', 3
2, 25, 0, 0, 0, 0, 0, 0, 0, 0, 5, 5, 0, ' ', 0, 0 },
{ "NightSmoke", 'U', "Belt", "Belt", 0x0D70, 0xE4, 0, 'U', 0x206C626D, 0, IDB_ITEM_NIGHTSMOKE, 7200, 0, 0, 0xF, 2, 1, 8, ' ', 80, 25, 0, 0, 0, 0,
0, 0, 0, 0, 0, 5, 5, 0, ' ', 0, 0 },
{ "Heavy Belt", 'N', 0, "Belt", 0x0D80, 0x0, 0, 'N', 0x206C6274, 0, IDB_ITEM_HEAVYBELT, 7100, 1024, 8192, 0xF, 2, 1, 8, ' ', 18, 45, 0, 0, 0, 0,
0, 0, 0, 0, 0, 6, 6, 0, ' ', 0, 0 },
{ "Iratha's Cord", 'S', "Heavy Belt", "Belt", 0x0D80, 0x06, 0x07F0, 'S', 0x206C6274, 0, IDB_ITEM_IRATHASCORD, 20011, 0, 0, 0xF, 2, 1, 8, '
', 36, 45, 0, 0, 0, 0, 0, 0, 0, 0, 6, 6, 0, ' ', 0, 0 },
{ "Infernal Buckle", 'U', "Heavy Belt", "Belt", 0x0D80, 0x14, 0xF80F, 'S', 0x206C6274, 0, IDB_ITEM_INFERNALBUCKLE, 20010, 0, 0, 0xF, 2,
1, 8, ' ', 36, 45, 0, 0, 0, 0, 0, 0, 0, 0, 6, 6, 0, ' ', 0, 0 },
{ "Goldwrap", 'U', "Heavy Belt", "Belt", 0x0D80, 0xE6, 0, 'U', 0x206C6274, 0, IDB_ITEM_GOLDWRAP, 7200, 0, 0, 0xF, 2, 1, 8, ' ', 90, 45, 0, 0, 0,
0, 0, 0, 0, 0, 6, 6, 0, ' ', 0, 0 },
{ "Plated Belt", 'N', 0, "Belt", 0x0D90, 0x0, 0, 'N', 0x206C6268, 0, IDB_ITEM_GIRDLE, 7100, 1024, 8192, 0xF, 2, 1, 8, ' ', 24, 60, 0, 0, 0, 0, 0,
0, 0, 0, 0, 8, 11, 0, ' ', 0, 0 },
{ "Sigon's Wrap", 'S', "Plated Belt", "Belt", 0x0D90, 0x12, 0, 'S', 0x206C6268, 0, IDB_ITEM_SIGONSWRAP, 20014, 0, 0, 0xF, 2, 1, 8, ' ', 48,
60, 0, 0, 0, 0, 0, 0, 0, 0, 0, 8, 11, 0, ' ', 0, 0 },
{ "Bladebuckle", 'U', "Plated Belt", "Belt", 0x0D90, 0xE8, 0, 'U', 0x206C6268, 0, IDB_ITEM_BLADEBUCKLE, 7200, 0, 0, 0xF, 2, 1, 8, ' ', 120,
60, 0, 0, 0, 0, 0, 0, 0, 0, 0, 8, 11, 0, ' ', 0, 0 },
{ "Bone Helm", 'N', 0, "Helm", 0x0DA0, 0x0, 0, 'N', 0x206D6862, 0, IDB_ITEM_BONEHELM, 2100, 1, 2, 0xF, 2, 2, 1, ' ', 40, 25, 0, 0, 0, 0, 0, 0, 0,
0, 0, 33, 36, 0, ' ', 0, 0 },
{ "Tancred's Skull", 'S', "Bone Helm", "Helm", 0x0DA0, 0x10, 0, 'S', 0x206D6862, 0, IDB_ITEM_TANCREDSKULL, 20015, 0, 0, 0xF, 2, 2, 1, ' '
, 80, 25, 0, 0, 0, 0, 0, 0, 0, 0, 33, 36, 0, ' ', 0, 0 },
{ "Wormskull", 'U', "Bone Helm", "Helm", 0x0DA0, 0x96, 0, 'U', 0x206D6862, 0, IDB_ITEM_WORMSKULL, 2200, 0, 0, 0xF, 2, 2, 1, ' ', 200, 25, 0, 0,
0, 0, 0, 0, 0, 0, 33, 36, 0, ' ', 0, 0 },
{ "Bone Shield", 'N', 0, "Shield", 0x0DB0, 0x0, 0, 'N', 0x20687362, 0, IDB_ITEM_BONESHIELD, 4100, 4, 4, 0xB, 2, 3, 5, ' ', 40, 25, 0, 0, 0, 0, 0,
0, 0, 0, 0, 10, 30, 0, ' ', 0, 0 },
{ "Wall of the Eyeless", 'U', "Bone Shield", "Shield", 0x0DB0, 0xC2, 0, 'U', 0x20687362, 0, IDB_ITEM_WALLOFTHEEYELESS, 4200, 0, 0, 0xB,
2, 3, 5, ' ', 200, 25, 0, 0, 0, 0, 0, 0, 0, 0, 10, 30, 0, ' ', 0, 0 },
{ "Spiked Shield", 'N', 0, "Shield", 0x0DC0, 0x0, 0, 'N', 0x206B7073, 0, IDB_ITEM_SPIKEDSHIELD, 4100, 4, 4, 0xB, 2, 3, 5, ' ', 40, 30, 0, 0, 0,
0, 0, 0, 0, 0, 0, 15, 25, 0, ' ', 0, 0 },
{ "Swordback Hold", 'U', "Spiked Shield", "Shield", 0x0DC0, 0xC4, 0, 'U', 0x206B7073, 0, IDB_ITEM_SWORDBACKHOLD, 4200, 0, 0, 0xB, 2, 3, 5,
', 200, 30, 0, 0, 0, 0, 0, 0, 0, 0, 15, 25, 0, ' ', 0, 0 },
{ "War Hat", 'E', "Cap", "Helm", 0x0DD0, 0x0, 0, 'N', 0x20706178, 0, IDB_ITEM_CAP, 2300, 1, 2, 0x3, 2, 2, 1, ' ', 12, 20, 0, 0, 0, 0, 0, 0, 0, 0, 0,
0, 0, 0, 0, 0, 0 }

```

```

,45,53,2,'H',0,0 },
{ "Sallet", 'E', "Skull Cap", "Helm", 0x0DE0, 0x0, 0, 'N', 0x20706B78, 0, IDB_ITEM_SKULLCAP, 2300, 1, 2, 0x3, 2, 2, 1, ' ', 18, 43, 0, 0, 0, 0, 0, 0, 0, 0, 0, 52, 62, 2, 'H', 0, 0 },
{ "Casque", 'E', "Helm", "Helm", 0x0DF0, 0x0, 0, 'N', 0x206D6C78, 0, IDB_ITEM_HELM, 2300, 1, 2, 0x3, 2, 2, 1, ' ', 24, 59, 0, 0, 0, 0, 0, 0, 0, 0, 0, 63, 72, 2, 'H', 0, 0 },
{ "Basinet", 'E', "Full Helm", "Helm", 0x0E00, 0x0, 0, 'N', 0x206C6878, 0, IDB_ITEM_FULLHELM, 2300, 1, 2, 0x3, 2, 2, 1, ' ', 30, 82, 0, 0, 0, 0, 0, 0, 0, 0, 0, 75, 84, 2, 'H', 0, 0 },
{ "Winged Helm", 'E', "Great Helm", "Helm", 0x0E10, 0x0, 0, 'N', 0x206D6878, 0, IDB_ITEM_GREATHELM, 2300, 1, 2, 0x3, 2, 2, 1, ' ', 40, 115, 0, 0, 0, 0, 0, 0, 0, 0, 0, 85, 98, 2, 'H', 0, 0 },
{ "Grand Crown", 'E', "Crown", "Helm", 0x0E20, 0x0, 0, 'N', 0x206E7278, 0, IDB_ITEM_CROWN, 2300, 1, 2, 0x3, 2, 2, 1, ' ', 50, 103, 0, 0, 0, 0, 0, 0, 0, 0, 0, 78, 113, 2, 'H', 0, 0 },
{ "Death Mask", 'E', "Mask", "Helm", 0x0E30, 0x0, 0, 'N', 0x206B7378, 0, IDB_ITEM_MASK, 2300, 1, 2, 0x3, 2, 2, 1, ' ', 40, 55, 0, 0, 0, 0, 0, 0, 0, 0, 0, 54, 86, 2, 'H', 0, 0 },
{ "Ghost Armor", 'E', 0, "Armor", 0x0E40, 0x0, 0, 'N', 0x20697578, 0, IDB_ITEM_QUILTED, 3300, 1, 1, 0x3, 2, 3, 3, ' ', 20, 38, 0, 0, 0, 0, 0, 0, 0, 0, 0, 102, 117, 0, ' ', 0, 0 },
{ "Serpent Skin Armor", 'E', 0, "Armor", 0x0E50, 0x0, 0, 'N', 0x20616578, 0, IDB_ITEM_LEATHER, 3300, 1, 1, 0x3, 2, 3, 3, ' ', 24, 43, 0, 0, 0, 0, 0, 0, 0, 0, 0, 111, 126, 0, ' ', 0, 0 },
{ "Demonhide Armor", 'E', 0, "Armor", 0x0E60, 0x0, 0, 'N', 0x20616C78, 0, IDB_ITEM_HARDLEATHER, 3300, 1, 1, 0x3, 2, 3, 3, ' ', 28, 50, 0, 0, 0, 0, 0, 0, 0, 0, 0, 122, 136, 0, ' ', 0, 0 },
{ "Trellised Armor", 'E', 0, "Armor", 0x0E70, 0x0, 0, 'N', 0x20757478, 0, IDB_ITEM_STUDDLEATHER, 3300, 1, 1, 0x3, 2, 3, 3, ' ', 32, 61, 0, 0, 0, 0, 0, 0, 0, 0, 0, 138, 153, 0, ' ', 0, 0 },
{ "Linked Mail", 'E', 0, "Armor", 0x0E80, 0x0, 0, 'N', 0x20676E78, 0, IDB_ITEM_RINGMAIL, 3300, 1, 1, 0x3, 2, 3, 3, ' ', 26, 74, 0, 0, 0, 0, 0, 0, 0, 0, 0, 158, 172, 0, ' ', 0, 0 },
{ "Tigulated Mail", 'E', 0, "Armor", 0x0E90, 0x0, 0, 'N', 0x206C6378, 0, IDB_ITEM_SCALEMAIL, 3300, 1, 1, 0x3, 2, 3, 3, ' ', 36, 86, 0, 0, 0, 0, 0, 0, 0, 0, 0, 176, 190, 0, ' ', 0, 0 },
{ "Mesh Armor", 'E', 0, "Armor", 0x0EA0, 0x0, 0, 'N', 0x206E6878, 0, IDB_ITEM_CHAINMAIL, 3300, 1, 1, 0x3, 2, 3, 3, ' ', 45, 92, 0, 0, 0, 0, 0, 0, 0, 0, 0, 198, 213, 0, ' ', 0, 0 },
{ "Curiass", 'E', 0, "Armor", 0x0EB0, 0x0, 0, 'N', 0x20737278, 0, IDB_ITEM_BREASTPLATE, 3300, 1, 1, 0x3, 2, 3, 3, ' ', 50, 65, 0, 0, 0, 0, 0, 0, 0, 0, 0, 188, 202, 0, ' ', 0, 0 },
{ "Russet Armor", 'E', 0, "Armor", 0x0EC0, 0x0, 0, 'N', 0x206C7078, 0, IDB_ITEM_SPLINTMAIL, 3300, 1, 1, 0x3, 2, 3, 3, ' ', 30, 97, 0, 0, 0, 0, 0, 0, 0, 0, 0, 225, 243, 0, ' ', 0, 0 },
{ "Templar Coat", 'E', 0, "Armor", 0x0ED0, 0x0, 0, 'N', 0x20746C78, 0, IDB_ITEM_PLATEMAIL, 3300, 1, 1, 0x3, 2, 3, 3, ' ', 60, 118, 0, 0, 0, 0, 0, 0, 0, 0, 0, 252, 274, 0, ' ', 0, 0 },
{ "Sharktooth Armor", 'E', 0, "Armor", 0x0EE0, 0x0, 0, 'N', 0x20646C78, 0, IDB_ITEM_FIELDPLATE, 3300, 1, 1, 0x3, 2, 3, 3, ' ', 48, 103, 0, 0, 0, 0, 0, 0, 0, 0, 0, 242, 258, 0, ' ', 0, 0 },
{ "Embossed Plate", 'E', 0, "Armor", 0x0EF0, 0x0, 0, 'N', 0x20687478, 0, IDB_ITEM_GOTHICPLATE, 3300, 1, 1, 0x3, 2, 3, 3, ' ', 55, 125, 0, 0, 0, 0, 0, 0, 0, 0, 0, 282, 303, 0, ' ', 0, 0 },
{ "Chaos Armor", 'E', 0, "Armor", 0x0F00, 0x0, 0, 'N', 0x206C7578, 0, IDB_ITEM_FULLPLATE, 3300, 1, 1, 0x3, 2, 3, 3, ' ', 70, 140, 0, 0, 0, 0, 0, 0, 0, 0, 0, 315, 342, 0, ' ', 0, 0 },
{ "Ornate Plate", 'E', 0, "Armor", 0x0F10, 0x0, 0, 'N', 0x20726178, 0, IDB_ITEM_ANCIENTARMOR, 3300, 1, 1, 0x3, 2, 3, 3, ' ', 60, 170, 0, 0, 0, 0, 0, 0, 0, 0, 0, 417, 450, 0, ' ', 0, 0 },
{ "Mage Plate", 'E', 0, "Armor", 0x0F20, 0x0, 0, 'N', 0x20707478, 0, IDB_ITEM_LIGHTPLATE, 3300, 1, 1, 0x3, 2, 3, 3, ' ', 60, 55, 0, 0, 0, 0, 0, 0, 0, 0, 0, 225, 261, 0, ' ', 0, 0 },
{ "Defender", 'E', "Buckler", "Shield", 0x0F30, 0x0, 0, 'N', 0x20637578, 0, IDB_ITEM_BUCKLER, 4300, 4, 4, 0x3, 2, 2, 5, ' ', 12, 38, 0, 0, 0, 0, 0, 0, 0, 0, 0, 41, 49, 1, 'S', 0, 0 },
{ "Round Shield", 'E', "Small Shield", "Shield", 0x0F40, 0x0, 0, 'N', 0x206C6D78, 0, IDB_ITEM_SMALLSHIELD, 4300, 4, 4, 0x3, 2, 2, 5, ' ', 16, 53, 0, 0, 0, 0, 0, 0, 0, 0, 0, 47, 55, 2, 'S', 0, 0 },
{ "Scutum", 'E', "Large Shield", "Shield", 0x0F50, 0x0, 0, 'N', 0x20677278, 0, IDB_ITEM_LARGESHIELD, 4300, 4, 4, 0x3, 2, 3, 5, ' ', 24, 71, 0, 0, 0, 0, 0, 0, 0, 0, 0, 53, 61, 3, 'S', 0, 0 },
{ "Dragon Shield", 'E', "Kite Shield", "Shield", 0x0F60, 0x0, 0, 'N', 0x20746978, 0, IDB_ITEM_KITESHIELD, 4300, 4, 4, 0x3, 2, 3, 5, ' ', 30, 91, 0, 0, 0, 0, 0, 0, 0, 0, 0, 59, 67, 3, 'S', 0, 0 },
{ "Pavise", 'E', "Tower Shield", "Shield", 0x0F70, 0x0, 0, 'N', 0x20776F78, 0, IDB_ITEM_TOWERSHIELD, 4300, 4, 4, 0x3, 2, 3, 5, ' ', 60, 133, 0, 0, 0, 0, 0, 0, 0, 0, 0, 68, 78, 3, 'S', 0, 0 },
{ "Ancient Shield", 'E', "Gothic Shield", "Shield", 0x0F80, 0x0, 0, 'N', 0x20737478, 0, IDB_ITEM_GOTHICSHIELD, 4300, 4, 4, 0x3, 2, 4, 5, ' ', 40, 110, 0, 0, 0, 0, 0, 0, 0, 0, 0, 80, 93, 3, 'S', 0, 0 },
{ "Demonhide Gloves", 'E', "Leather Gloves", "Gloves", 0x0F90, 0x0, 0, 'N', 0x20676C78, 0, IDB_ITEM_LEATHERGLOVES, 5300, 512, 4096, 0x3, 2, 2, 10, ' ', 12, 20, 0, 0, 0, 0, 0, 0, 0, 0, 0, 28, 35, 0, ' ', 0, 0 },
{ "Sharkskin Gloves", 'E', "Heavy Gloves", "Gloves", 0x0FA0, 0x0, 0, 'N', 0x20677678, 0, IDB_ITEM_HEAVYGLOVES, 5300, 512, 4096, 0x3, 2, 2, 10, ' ', 14, 20, 0, 0, 0, 0, 0, 0, 0, 0, 0, 33, 39, 0, ' ', 0, 0 },
{ "Heavy Bracers", 'E', "Chain Gloves", "Gloves", 0x0FB0, 0x0, 0, 'N', 0x20676D78, 0, IDB_ITEM_CHAINGLOVES, 5300, 512, 4096, 0x3, 2, 2, 10, ' ', 16, 58, 0, 0, 0, 0, 0, 0, 0, 0, 0, 37, 44, 0, ' ', 0, 0 },
{ "Battle Gauntlets", 'E', "Light Gauntlets", "Gloves", 0x0FC0, 0x0, 0, 'N', 0x20677478, 0, IDB_ITEM_LIGHTGAUNTLETS, 5300, 512, 4096, 0x3, 2, 2, 10, ' ', 18, 88, 0, 0, 0, 0, 0, 0, 0, 0, 0, 39, 47, 0, ' ', 0, 0 },
{ "War Gauntlets", 'E', "Gauntlets", "Gloves", 0x0FD0, 0x0, 0, 'N', 0x20676878, 0, IDB_ITEM_GAUNTLETS, 5300, 512, 4096, 0x3, 2, 2, 10, ' ', 24, 110, 0, 0, 0, 0, 0, 0, 0, 0, 0, 43, 53, 0, ' ', 0, 0 },
{ "Demonhide Boots", 'E', "Boots", "Boots", 0x0FE0, 0x0, 0, 'N', 0x20626C78, 0, IDB_ITEM_LEATHERBOOTS, 6300, 256, 2048, 0x3, 2, 2, 9, ' ', 12, 20, 0, 0, 0, 0, 0, 0, 0, 0, 0, 28, 35, 0, ' ', 0, 0 },
{ "Sharkskin Boots", 'E', "Heavy Boots", "Boots", 0x0FF0, 0x0, 0, 'N', 0x20627678, 0, IDB_ITEM_HEAVYBOOTS, 6300, 256, 2048, 0x3, 2, 2, 9, ' ', 14, 47, 0, 0, 0, 0, 0, 0, 0, 0, 0, 33, 39, 0, ' ', 0, 0 },
{ "Mesh Boots", 'E', "Chain Boots", "Boots", 0x1000, 0x0, 0, 'N', 0x20626D78, 0, IDB_ITEM_CHAINBOOTS, 6300, 256, 2048, 0x3, 2, 2, 9, ' ', 15, 65, 0, 0, 0, 0, 0, 0, 0, 0, 0, 37, 44, 0, ' ', 0, 0 },
{ "Battle Boots", 'E', "Light Plate", "Boots", 0x1010, 0x0, 0, 'N', 0x20627478, 0, IDB_ITEM_LIGHTPLATEBOOTS, 6300, 256, 2048, 0x3, 2, 2, 9, ' ', 18, 95, 0, 0, 0, 0, 0, 0, 0, 0, 0, 39, 47, 0, ' ', 0, 0 },
{ "War Boots", 'E', "Greaves", "Boots", 0x1020, 0x0, 0, 'N', 0x20626878, 0, IDB_ITEM_PLATEBOOTS, 6300, 256, 2048, 0x3, 2, 2, 9, ' ', 24, 125, 0, 0, 0, 0, 0, 0, 0, 0, 0, 43, 53, 0, ' ', 0, 0 },
{ "Demonhide Sash", 'E', "Sash", "Belt", 0x1030, 0x0, 0, 'N', 0x20626C7A, 0, IDB_ITEM_SASH, 7300, 1024, 8192, 0x3, 2, 1, 8, ' ', 12, 20, 0, 0, 0, 0, 0, 0, 0, 0, 0, 29, 34, 0, ' ', 0, 0 },
{ "Sharkskin Belt", 'E', "Light Belt", "Belt", 0x1040, 0x0, 0, 'N', 0x2062767A, 0, IDB_ITEM_LIGHTBELT, 7300, 1024, 8192, 0x3, 2, 1, 8, ' ', 14, 20, 0, 0, 0, 0, 0, 0, 0, 0, 0, 31, 36, 0, ' ', 0, 0 },

```



```

,0,0,0,0,0,0,0,' ',0,"Points: 60" },
{ "Greater Healing Potion", 'A', 0, "Potion", 0x15D0, 0x0, 0, 'N', 0x20347068, 1, IDB_ITEM_GREATERHEALING, 10101, 0, 0, 0x0, 1, 1, 0, ' ',
0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,' ',0,"Points: 80" },
{ "Super Healing Potion", 'A', 0, "Potion", 0x15E0, 0x0, 0, 'N', 0x20357068, 1, IDB_ITEM_SUPERHEALING, 10101, 0, 0, 0x0, 1, 1, 0, ' ', 0, 0, 0, 0,
0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,' ',0,"Points: 100" },
{ "Minor Mana Potion", 'A', 0, "Potion", 0x15F0, 0x0, 0, 'N', 0x2031706D, 1, IDB_ITEM_MINORMANA, 10102, 0, 0, 0x0, 1, 1, 0, ' ', 0, 0, 0, 0, 0,
0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,' ',0,"Points: 20" },
{ "Light Mana Potion", 'A', 0, "Potion", 0x1600, 0x0, 0, 'N', 0x2032706D, 1, IDB_ITEM_LIGHTMANA, 10102, 0, 0, 0x0, 1, 1, 0, ' ', 0, 0, 0, 0, 0,
0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,' ',0,"Points: 40" },
{ "Mana Potion", 'A', 0, "Potion", 0x1610, 0x0, 0, 'N', 0x2033706D, 1, IDB_ITEM_MANA, 10102, 0, 0, 0x0, 1, 1, 0, ' ', 0, 0, 0, 0, 0, 0, 0, 0, 0,
0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,' ',0,"Points: 60" },
{ "Greater Mana Potion", 'A', 0, "Potion", 0x1620, 0x0, 0, 'N', 0x2034706D, 1, IDB_ITEM_GREATERMANA, 10102, 0, 0, 0x0, 1, 1, 0, ' ', 0, 0, 0, 0,
0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,' ',0,"Points: 80" },
{ "Super Mana Potion", 'A', 0, "Potion", 0x1630, 0x0, 0, 'N', 0x2035706D, 1, IDB_ITEM_SUPERMANA, 10102, 0, 0, 0x0, 1, 1, 0, ' ', 0, 0, 0, 0, 0,
0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,' ',0,"Points: 100" },
{ "Chipped Skull", 'G', 0, "Gem", 0x1640, 0x0, 0, 'N', 0x20636B73, 1, IDB_ITEM_CHIPPEDSKULL, 10301, 0, 0, 0x0, 1, 1, -1, ' ', 0, 0, 0, 0, 0, 0, 0,
0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,' ',0,"Can Be Inserted in Socketed\par Weapons, Shields or Helms\par\par Weapon: adds mana and life
steal to attack\par Shield: adds attacker takes damage\par Helm: adds mana and life regeneration" },
{ "Flawed Skull", 'G', 0, "Gem", 0x1650, 0x0, 0, 'N', 0x20666B73, 1, IDB_ITEM_FLAWEDSKULL, 10302, 0, 0, 0x0, 1, 1, -1, ' ', 0, 0, 0, 0, 0, 0, 0,
0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,' ',0,"Can Be Inserted in Socketed\par Weapons, Shields or Helms\par\par Weapon: adds mana and life st
eal to attack\par Shield: adds attacker takes damage\par Helm: adds mana and life regeneration" },
{ "Skull", 'G', 0, "Gem", 0x1660, 0x0, 0, 'N', 0x20756B73, 1, IDB_ITEM_SKULL, 10303, 0, 0, 0x0, 1, 1, -1, ' ', 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
0,' ',0,"Can Be Inserted in Socketed\par Weapons, Shields or Helms\par\par Weapon: adds mana and life steal to attack
\par Shield: adds attacker takes damage\par Helm: adds mana and life regeneration" },
{ "Flawless Skull", 'G', 0, "Gem", 0x1670, 0x0, 0, 'N', 0x206C6B73, 1, IDB_ITEM_FLAWLESSSKULL, 10304, 0, 0, 0x0, 1, 1, -1, ' ', 0, 0, 0, 0, 0, 0,
0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,' ',0,"Can Be Inserted in Socketed\par Weapons, Shields or Helms\par\par Weapon: adds mana and lif
e steal to attack\par Shield: adds attacker takes damage\par Helm: adds mana and life regeneration" },
{ "Perfect Skull", 'G', 0, "Gem", 0x1680, 0x0, 0, 'N', 0x207A6B73, 1, IDB_ITEM_PERFECTSKULL, 10305, 0, 0, 0x0, 1, 1, -1, ' ', 0, 0, 0, 0, 0, 0, 0,
0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,' ',0,"Can Be Inserted in Socketed\par Weapons, Shields or Helms\par\par Weapon: adds mana and life
steal to attack\par Shield: adds attacker takes damage\par Helm: adds mana and life regeneration" },
};

```

```
int nItemInfos = sizeof ItemInfos / sizeof ItemInfos[0];
```

```
HBITMAP ItemInfoGetBitmap(ItemInfo *Info)
```

```

{
#ifdef JAMELLAEDITOR
    if (Info->hBmp) return Info->hBmp;

    if (Info->BitmapID)
    {
        Info->hBmp = LoadBitmap(hInstance, MAKEINTRESOURCE(Info->BitmapID));

        if (Info->hBmp)
        {
            BITMAP bmpinfo;
            if (GetObject(Info->hBmp, sizeof bmpinfo, &bmpinfo) == 0)
            {
                sprintf(buffer, "Bitmap Resource Error ID = %i\n", Info->BitmapID);
                MessageBox(NULL, buffer, PROGRAMNAME,
                    MB_OK | MB_ICONSTOP | MB_APPLMODAL);
                exit(0);
            }

            if (bmpinfo.bmWidth != Info->SizeX * 29 - 1 ||
                bmpinfo.bmHeight != Info->SizeY * 29 - 1)
            {
                sprintf(buffer, "Resource Error [%i|%i]\nID = %i", bmpinfo.bmWidth, bmpinfo.bmHeight, Info->BitmapID);
                MessageBox(NULL, buffer, PROGRAMNAME,
                    MB_OK | MB_ICONSTOP | MB_APPLMODAL);
                exit(0);
            }
        }
    }
    else
    {
        sprintf(buffer, "LoadBitmap Error ID = %i\n", Info->BitmapID);
        MessageBox(NULL, buffer, PROGRAMNAME,
            MB_OK | MB_ICONSTOP | MB_APPLMODAL);
        exit(0);
    }
}
return itemunknown.hBmp;
return Info->hBmp;

```

```
#else
```

```
    return 0;  
#endif  
}
```

```

// ItemMg.cpp

#include "JamellaD2E.h"

int ItemMg::BaseDefense()
{
    if (!Info) FindInfo();

    int BaseAC = Info->ACMin;
    if (Info->ACMax - Info->ACMin > 0)
        BaseAC += DWARandomOffset(2) % (Info->ACMax - Info->ACMin);
    return BaseAC;
}

ArmorClass ItemMg::Defense()
{
    ArmorClass AC;

    AC.BaseAC = AC.AC = BaseDefense();
    AC.Magic = false;

    if (Decoded) {
        for(int z=0;z<MD->nMods;z++)
        {
            if (!MD->Mod[z].Code) continue;

            if (MD->Mod[z].Code == 'ar00')
            {
                AC.AC += MD->Mod[z].Mag;
                AC.Magic = true;
            }
            else if (MD->Mod[z].Code == 'ar02')
            {
                AC.AC += (AC.AC * MD->Mod[z].Mag) / 100;
                AC.Magic = true;
            }
        }
    }

    return AC;
}

Damage ItemMg::WeaponDamage()
{
    Damage Dmg;

    Dmg.Hands = Info->Hands;
    Dmg.Magic = false;

    if (Decoded) {
        int Percent = 100;
        int BoostMax = 0;
        int BoostMin = 0;

        for(int z=0;z<MD->nMods;z++)
        {
            if (MD->Mod[z].Code == 'dm00')
            {
                BoostMax += MD->Mod[z].Mag;
                Dmg.Magic = true;
            }
            else if (MD->Mod[z].Code == 'dm01')
            {
                BoostMin += MD->Mod[z].Mag;
                Dmg.Magic = true;
            }
            else if (MD->Mod[z].Code == 'dm02')
            {
                Percent += MD->Mod[z].Mag;
                Dmg.Magic = true;
            }
        }

        Dmg.OneHandMin = (Info->OneHandDmgMin * Percent)/100 + BoostMin;
        Dmg.OneHandMax = (Info->OneHandDmgMax * Percent)/100 + BoostMax;
        Dmg.TwoHandMin = (Info->TwoHandDmgMin * Percent)/100 + BoostMin;
        Dmg.TwoHandMax = (Info->TwoHandDmgMax * Percent)/100 + BoostMax;
    }
    return Dmg;
}

```

```

unsigned int ItemMg::RequiredStrength()
{
    if (!Info)
        if (!FindInfo()) return 0;
    if (!Decoded)
        Decode();

    int MinStr = Info->MinStr;

    if (Decoded) {
        int Percent = 100;

        for(int z=0;z<MD->nMods;z++)
        {
            if (MD->Mod[z].Code == 'rq00')
            {
                Percent += MD->Mod[z].Mag;
            }
        }

        MinStr = (MinStr * Percent) / 100;
    }
    return MinStr;
}

unsigned int ItemMg::RequiredDexterity()
{
    if (!Info)
        if (!FindInfo()) return 0;
    if (!Decoded)
        Decode();

    return Info->MinDex;
}

unsigned int ItemMg::RequiredELevel()
{
    int ELevel = 0;

    if (Quality() == MAGICITEM && Decoded)
    {
        if (MD->MagicPrefix)
            ELevel = max(ELevel,MD->MagicPrefix->ELevel);
        if (MD->MagicSuffix)
            ELevel = max(ELevel,MD->MagicSuffix->ELevel);
    }
    else if (Quality() == RAREITEM && Decoded)
    {
        for(int z=0;z<6;z++) {
            if (MD->RareFix[z])
                ELevel = max(ELevel,MD->RareFix[z]->ELevel);
        }
    }

    return ELevel;
}

bool ItemMg::Decode()
{
    return MD->Decode();
}

const char* ItemMg::Name()
{
    if (!Decoded) Decode();
    return MD->Name();
}

const char* ItemMg::RichText()
{
    char *s = RichTextTmp;
    StartRTF(s);

    if (!Decoded) Decode();

    char buffers[2][64];

    switch(Quality())
    {
    {
    case CRUDEITEM:
        strcat(s,"\\cf0 ",MD->Name(),0);
        break;
    default:

```

```

    if (Socketed()) {
        if (!GemNum())
            strcat(s, "\\cf5 ", MD->Name(), 0);
        else
            strcat(s, "\\cf5 Gemmed ", MD->Name(), 0);
    }
    else
        strcat(s, "\\cf0 ", MD->Name(), 0);
    break;
case SUPERIORITEM:
    strcat(s, "\\cf0 ", MD->Name(), 0);
    break;
case MAGICITEM:
    strcat(s, "\\cf1 ", MD->Name(), 0);
    break;
case RAREITEM:
    strcat(s, "\\cf2 ", MD->Name(), "\\par ", Info->ItemName, 0);
    break;
case SETITEM:
    strcat(s, "\\cf3 ", MD->Name(), "\\par ", Info->BaseItemName, 0);
    break;
case UNIQUEITEM:
    strcat(s, "\\cf4 ", MD->Name(), "\\par ", Info->BaseItemName, 0);
    break;
}

if (Info->Hands > 0)
{
    Damage Dmg = WeaponDamage();

    if (Dmg.Hands >= 1)
    {
        if (Dmg.Magic) {
            strcat(s, "\\par\\cf0 One-Hand Damage: \\cf1 ", itoa(Dmg.OneHandMin, buffers[0], 10), 0);
            strcat(s, " to ", itoa(Dmg.OneHandMax, buffers[0], 10), 0);
        }
        else {
            strcat(s, "\\par\\cf0 One-Hand Damage: ", itoa(Dmg.OneHandMin, buffers[0], 10), 0);
            strcat(s, " to ", itoa(Dmg.OneHandMax, buffers[0], 10), 0);
        }
    }
    if (Dmg.Hands >= 2)
    {
        if (Dmg.Magic) {
            strcat(s, "\\par\\cf0 Two-Hand Damage: \\cf1 ", itoa(Dmg.TwoHandMin, buffers[0], 10), 0);
            strcat(s, " to ", itoa(Dmg.TwoHandMax, buffers[0], 10), 0);
        }
        else {
            strcat(s, "\\par\\cf0 Two-Hand Damage: ", itoa(Dmg.TwoHandMin, buffers[0], 10), 0);
            strcat(s, " to ", itoa(Dmg.TwoHandMax, buffers[0], 10), 0);
        }
    }
}

if (Info->ACMin > 0)
{
    ArmorClass AC = Defense();
    if (AC.Magic)
        strcat(s, "\\par\\cf0 Defense: \\cf1 ", itoa(AC.AC, buffers[0], 10), 0);
    else
        strcat(s, "\\par\\cf0 Defense: ", itoa(AC.AC, buffers[0], 10), 0);
}

if (Info->Quantity > 0)
{
    strcat(s, "\\par\\cf0 Quantity: ", itoa(Quantity(), buffers[0], 10), 0);
}

if (Info->Durability > 0)
{
    strcat(s, "\\par\\cf0 Durability: ", itoa(Durability(), buffers[0], 10), 0);
    strcat(s, " of ", itoa(DurabilityMax(), buffers[0], 10), 0);
}

#ifdef JAMELLAEDITOR
if (RequiredStrength() > 0)
{
    strcat(s, "\\par", RequiredStrength() > fc.gf.strength ? "\\cf6" : "\\cf0", " Required Strength: ", itoa(RequiredSt
rength(), buffers[0], 10), 0);
}
#endif

```

```

    }
    if (RequiredDexterity() > 0)
    {
        strcat(s, "\\par", RequiredDexterity() > fc.gf.dexterity ? "\\cf6" : "\\cf0", " Required Dexterity: ", itoa(RequiredDexterity(), buffers[0], 10), 0);
    }
    if (RequiredELevel() > 0)
    {
        strcat(s, "\\par", RequiredELevel() > fc.gf.level ? "\\cf6" : "\\cf0", " Required Level: ", itoa(RequiredELevel(), buffers[0], 10), 0);
    }
#else
    if (RequiredStrength() > 0)
    {
        strcat(s, "\\par\\cf0 Required Strength: ", itoa(RequiredStrength(), buffers[0], 10), 0);
    }
    if (RequiredDexterity() > 0)
    {
        strcat(s, "\\par\\cf0 Required Dexterity: ", itoa(RequiredDexterity(), buffers[0], 10), 0);
    }
    if (RequiredELevel() > 0)
    {
        strcat(s, "\\par\\cf0 Required Level: ", itoa(RequiredELevel(), buffers[0], 10), 0);
    }
#endif
    switch(Quality())
    {
    default:
        if (Socketed()) {
            strcat(s, "\\cf1 ", MD->RichAttributes(), 0);
        }
        break;
    case MAGICITEM:
    case SETITEM:
    case RAREITEM:
    case UNIQUEITEM:
        strcat(s, "\\cf1 ", MD->RichAttributes(), 0);
        break;
    }

    if (Info->UndeadBonus > 100)
    {
        strcat(s, "\\par\\cf1 ", itoa(Info->UndeadBonus, buffers[0], 10), "% Damage to Undead ", 0);
    }

    if (Socketed())
    {
        sprintf(buffers[0], "Socketed [%i Gems]", GemNum());
        strcat(s, "\\par\\cf1 ", buffers[0], 0);
    }

    if (Info->Description)
    {
        strcat(s, "\\par\\cf0 ", Info->Description, 0);
    }

    strcat(s, "\\par }");

    return s;
}

```



```

#include "JamellaD2E.h"

struct _ItemTree ItemTree[] = {
{ 1,"Weapons",1000 },
{ 2,"Regular",1100 },
{ 3,"Swords",1101 },
{ 3,"Axes",1102 },
{ 3,"Maces",1103 },
{ 3,"Javelins",1104 },
{ 3,"Spears",1105 },
{ 3,"Polearms",1106 },
{ 3,"Daggers",1107 },
{ 3,"Throwing",1108 },
{ 3,"Bows",1109 },
{ 3,"Crossbows",1110 },
{ 3,"Wands",1111 },
{ 3,"Scepters",1112 },
{ 3,"Staves",1113 },
{ 2,"Unique",1200 },
{ 3,"Swords",1201 },
{ 3,"Axes",1202 },
{ 3,"Maces",1203 },
{ 3,"Daggers",1204 },
{ 3,"Spears",1205 },
{ 3,"Polearms",1206 },
{ 3,"Bows",1207 },
{ 3,"Crossbows",1208 },
{ 3,"Wands",1209 },
{ 3,"Scepters",1210 },
{ 3,"Staves",1211 },
{ 2,"Exceptional",1300 },
{ 3,"Swords",1301 },
{ 3,"Axes",1302 },
{ 3,"Maces",1303 },
{ 3,"Javelins",1304 },
{ 3,"Spears",1305 },
{ 3,"Polearms",1306 },
{ 3,"Daggers",1307 },
{ 3,"Throwing",1308 },
{ 3,"Bows",1309 },
{ 3,"Crossbows",1310 },
{ 3,"Wands",1311 },
{ 3,"Scepters",1312 },
{ 3,"Staves",1313 },
{ 2,"Potions",1400 },
{ 1,"Helms",2000 },
{ 2,"Regular",2100 },
{ 2,"Unique",2200 },
{ 2,"Exceptional",2300 },
{ 1,"Armor",3000 },
{ 2,"Regular",3100 },
{ 2,"Unique",3200 },
{ 2,"Exceptional",3300 },
{ 1,"Shields",4000 },
{ 2,"Regular",4100 },
{ 2,"Unique",4200 },
{ 2,"Exceptional",4300 },
{ 1,"Gloves",5000 },
{ 2,"Regular",5100 },
{ 2,"Unique",5200 },
{ 2,"Exceptional",5300 },
{ 1,"Boots",6000 },
{ 2,"Regular",6100 },
{ 2,"Unique",6200 },
{ 2,"Exceptional",6300 },
{ 1,"Belts",7000 },
{ 2,"Regular",7100 },
{ 2,"Unique",7200 },
{ 2,"Exceptional",7300 },
{ 1,"Rings",8000 },
{ 2,"Magical",8100 },
{ 2,"Unique",8200 },
{ 1,"Amulets",9000 },
{ 2,"Magical",9100 },
{ 2,"Unique",9200 },
{ 1,"Accessories",10000 },
{ 2,"Potions",10100 },
{ 3,"Healing",10101 },
{ 3,"Mana",10102 },

```

```
{ 2, "Scrolls & Tomes", 10200 },
{ 2, "Gems", 10300 },
{ 3, "Chipped", 10301 },
{ 3, "Flawed", 10302 },
{ 3, "Regular", 10303 },
{ 3, "Flawless", 10304 },
{ 3, "Perfect", 10305 },
{ 1, "Set Items", 20000 },
{ 2, "Angelic Raiment", 20001 },
{ 2, "Arcanna's Tricks", 20002 },
{ 2, "Arctic Gear", 20003 },
{ 2, "Berserker's Arsenal", 20004 },
{ 2, "Cathan's Traps", 20005 },
{ 2, "Civerb's Vestments", 20006 },
{ 2, "Cleglaw's Brace", 20007 },
{ 2, "Death's Disguise", 20008 },
{ 2, "Hsaru's Defense", 20009 },
{ 2, "Infernal Tools", 20010 },
{ 2, "Iratha's Finery", 20011 },
{ 2, "Isenhart's Armory", 20012 },
{ 2, "Milabrega's Regalia", 20013 },
{ 2, "Sigon's Complete Steel", 20014 },
{ 2, "Tancred's Battlegear", 20015 },
{ 2, "Vidala's Rig", 20016 },
{ 1, "Quest Items", 30000 },
{ 2, "Act I", 30001 },
{ 2, "Act II", 30002 },
{ 2, "Act III", 30003 },
{ 2, "Act IV", 30004 },
{ 1, "Special Items", 40000 },
{ 1, "Useless Junk (but fun)", 90000 },
{ 2, "Skeleton Collection", 90100 },
};
int nItemTree = sizeof ItemTree / sizeof ItemTree[0];
```

```

// MagicDecoder.cpp from D2E
// Contains methods for the Class MagicDecoder

#include "Jamellad2E.h"

MagicDecoder::MagicDecoder(Item *IP)
{
    ZeroMemory(this, sizeof *this);
    I = IP;

    PrefixBuffer = new _MagicPreSuffix* [nMagicPrefixTable];
    SuffixBuffer = new _MagicPreSuffix* [nMagicSuffixTable];
    RarePrefixBuffer = new const _RarePreSuffix* [nRarePrefixTable];
    RareSuffixBuffer = new const _RarePreSuffix* [nRareSuffixTable];
}

MagicDecoder::~MagicDecoder()
{
    if (PrefixBuffer) delete [] PrefixBuffer;
    if (SuffixBuffer) delete [] SuffixBuffer;
    if (RarePrefixBuffer) delete [] RarePrefixBuffer;
    if (RareSuffixBuffer) delete [] RareSuffixBuffer;
}

// Buffer Builders
void MagicDecoder::BuildMagicBuffers()
{
    if (PrefixBuffer && SuffixBuffer)
        if (ItemBuffered == I->ItemCode() && ItemBufferedModLevel == I->MagicLevel())
            return;

    ItemBuffered = I->ItemCode();
    ItemBufferedModLevel = I->MagicLevel();

    _MagicPreSuffix *Buffer[128];

    // Build Prefix Buffer
    nPrefixBuffer = 0;
    for(int z=0; z<nMagicPrefixTable; z++)
    {
        if (MagicPrefixTable[z].ModLevel - 2 > I->MagicLevel()) continue;
        if ((MagicPrefixTable[z].MagicMask & I->Info->MagicMask) == 0) continue;

        Buffer[nPrefixBuffer++] = &MagicPrefixTable[z];
    }

    memcpy(PrefixBuffer, Buffer, sizeof Buffer[0] * nPrefixBuffer);

    // Build Suffix Buffer
    nSuffixBuffer = 0;
    for(z=0; z<nMagicSuffixTable; z++)
    {
        if (MagicSuffixTable[z].ModLevel - 2 > I->MagicLevel()) continue;
        if ((MagicSuffixTable[z].MagicMask & I->Info->MagicMask) == 0) continue;

        Buffer[nSuffixBuffer++] = &MagicSuffixTable[z];
    }

    memcpy(SuffixBuffer, Buffer, sizeof Buffer[0] * nSuffixBuffer);
}

void MagicDecoder::BuildRareBuffers()
{
    if (RarePrefixBuffer && RareSuffixBuffer)
        if (RareItemCodeBuffered == I->ItemCode())
            return;

    RareItemCodeBuffered = I->ItemCode();

    const _RarePreSuffix *Buffer[128];

    // Build Prefix Buffer
    nRarePrefixBuffer = 0;
    for(int z=0; z<nRarePrefixTable; z++)
    {
        if ((RarePrefixTable[z].RareMask & I->Info->RareMask) == 0) continue;
        Buffer[nRarePrefixBuffer++] = &RarePrefixTable[z];
    }

    memcpy(RarePrefixBuffer, Buffer, sizeof Buffer[0] * nRarePrefixBuffer);

    // Build Suffix Buffer

```

```

nRareSuffixBuffer = 0;
for(z=0;z<nRareSuffixTable;z++)
{
    if ((RareSuffixTable[z].RareMask & I->Info->RareMask) == 0) continue;
    Buffer[nRareSuffixBuffer++] = &RareSuffixTable[z];
}

memcpy(RareSuffixBuffer,Buffer,sizeof Buffer[0] * nRareSuffixBuffer);
}

void MagicDecoder::DecodeCrude()
{
    RAND rnd;
    StartRandoms(I,&rnd);

    const char *CrudePrefixes[4] =
    { "Crude","Cracked","Damaged","Low Quality" };

    CrudePrefix = CrudePrefixes[Random(&rnd) % 4];
}

void MagicDecoder::DecodeMagical()
{
    RAND rnd;
    StartRandoms(I,&rnd);

    if (!I->Info) I->FindInfo();

    BuildMagicBuffers();

    memset(&MagicPrefixMag,0,sizeof MagicPrefixMag);
    memset(&MagicSuffixMag,0,sizeof MagicSuffixMag);

    // Got Prefix ?
    if ((Random(&rnd) % 2) == 1)
    {
        if (nPrefixBuffer == 0)
        {
            DecodeError = DE_MAGIC_PREFIX_MODULO_ZERO;
            return;
        }

        modMagicPrefix = nPrefixBuffer;

        int Index = modpickMagicPrefix = Random(&rnd) % nPrefixBuffer;

        MagicPrefix = PrefixBuffer[Index];

        int RndGets = MagicPrefix->nMod;
        for(int z=0;z<4;z++)
        {
            if (MagicPrefix->Mod[z].Code == 0) continue;

            int diff = MagicPrefix->Mod[z].Max - MagicPrefix->Mod[z].Min;

            if (diff > 0)
            {
                if (RndGets <= 0)
                {
                    DecodeError = DE_MAGIC_PREFIX_MODIFIER_VALMISSING;
                    return;
                }

                MagicPrefixMag[z] = Random(&rnd) % diff;
                RndGets--;
            }
        }
        for(;RndGets > 0;RndGets--)
            Random(&rnd);
    }

    // Get Suffix ?
    int GetSuffix = 0;
    GetSuffix = Random(&rnd) % 2;
    if (GetSuffix || !MagicPrefix)
    {
        if (nSuffixBuffer == 0)
        {
            DecodeError = DE_MAGIC_SUFFIX_MODULO_ZERO;
            return;
        }
    }
}

```

```

    }

    modMagicSuffix = nSuffixBuffer;

    int Index = modpickMagicSuffix = Random(&rnd) % nSuffixBuffer;

    MagicSuffix = SuffixBuffer[Index];

    int RndGets = MagicSuffix->nMod;
    for(int z=0;z<4;z++)
    {
        if (MagicSuffix->Mod[z].Code == 0) continue;

        int diff = MagicSuffix->Mod[z].Max - MagicSuffix->Mod[z].Min;

        if (diff > 0)
        {
            if (RndGets <= 0)
            {
                DecodeError = DE_MAGIC_SUFFIX_MODIFIER_VALMISSING;
                return;
            }

            MagicSuffixMag[z] = Random(&rnd) % diff;
            RndGets--;
        }
    }
    for(;RndGets > 0;RndGets--)
        Random(&rnd);
}

void MagicDecoder::DecodeRare()
{
    RAND rnd;
    StartRandoms(I,&rnd);

    if (!I->Info) I->FindInfo();

    BuildMagicBuffers();
    BuildRareBuffers();

    { // Name Prefix

        if (nRarePrefixBuffer == 0)
        {
            DecodeError = DE_RARE_NAMEPREFIX_MODULO_ZERO;
            return;
        }

        int iRarePrefix = Random(&rnd) % nRarePrefixBuffer;
        RarePrefix = RarePrefixBuffer[iRarePrefix];
    } // Name Prefix

    { // Name Suffix

        if (nRareSuffixBuffer == 0)
        {
            DecodeError = DE_RARE_NAMESUFFIX_MODULO_ZERO;
            return;
        }

        int iRareSuffix = Random(&rnd) % nRareSuffixBuffer;
        RareSuffix = RareSuffixBuffer[iRareSuffix];
    } // Name Suffix

    { // Number of PreSuffixes

        nRareFix = (Random(&rnd) % 3) + 4;
    } // Number of PreSuffixes

    int nPrefixes = 0,
        nSuffixes = 0;

    if (nPrefixBuffer == 0 || nSuffixBuffer == 0)
    {
        DecodeError = DE_RARE_PRESUFFIX_MODULO_ZERO;
    }
}

```

```

    return;
}

int Timeout = 0;

{ // PreSuffixes
    for(int n=0;n<nRareFix;n++)
    {
        // Select Pre or Suffix
        int PreSuf = Random(&rnd) % 2;

        // Kick random Value
        Random(&rnd);

        if ((PreSuf == 0 && nPrefixes < 3) || nSuffixes > 2)
        {
reselectprefix:
            int Index = Random(&rnd) % nPrefixBuffer;

            if (Timeout++ > DECODETIMEOUT)
            {
                //DecodeError = DE_RARE_PRESUFFIX_NOPOSSIBLE;
                return;
            }

            // Check Groups
            for(int m=n-1;m>=0;m--)
            {
                if (!RareFix[m]) continue;
                if (RareFix[m]->Text == 0) continue;
                if (RareFix[m]->Group != PrefixBuffer[Index]->Group) continue;

                // Kick random Value
                Random(&rnd);

                goto reselectprefix;
            }

            nPrefixes++;
            RareFix[n] = PrefixBuffer[Index];
            tRareFix[n] = PREFIX;
        }
        else
        {
reselectsuffix:
            int Index = Random(&rnd) % nSuffixBuffer;

            if (Timeout++ > DECODETIMEOUT)
            {
                //DecodeError = DE_RARE_PRESUFFIX_NOPOSSIBLE;
                return;
            }

            // Check Groups
            for(int m=n-1;m>=0;m--)
            {
                if (!RareFix[m]) continue;
                if (RareFix[m]->Text == 0) continue;
                if (RareFix[m]->Group != SuffixBuffer[Index]->Group) continue;

                // Kick random Value
                Random(&rnd);

                goto reselectsuffix;
            }

            nSuffixes++;
            RareFix[n] = SuffixBuffer[Index];
            tRareFix[n] = SUFFIX;
        }
    }

    // Get Magnitudes of Modifiers
    if (!Quick)
    for(n=0;n<nRareFix;n++)
    {
        if (!RareFix[n]) continue;

```

```

int RndGets = RareFix[n]->nMod;
for(int z=0;z<4;z++)
{
    if (RareFix[n]->Mod[z].Code == 0) continue;

    int diff = RareFix[n]->Mod[z].Max - RareFix[n]->Mod[z].Min;

    if (diff > 0)
    {
        if (RndGets <= 0)
        {
            DecodeError = DE_RARE_PRESUFFIX_MODIFIER_VALMISSING;
            return;
        }

        RareFixMag[n][z] = Random(&rnd) % diff;
        RndGets--;
    }
}
for(;RndGets > 0;RndGets--)
    Random(&rnd);
}

} // PreSuffixes
}
void MagicDecoder::DecodeUnique()
{
    if (I->UniqueCode() >= 0 && I->UniqueCode() < nUniqueItems*2)
    {
        UniqueItem = &UniqueItems[I->UniqueCode() / 2];
    }
    else
        DecodeError = DE_UNIQUE_ITEMCODE;
}
void MagicDecoder::DecodeSet()
{
    if (I->UniqueCode() >= 0 && I->UniqueCode() < nSetItems*2)
    {
        SetItem = &SetItems[I->UniqueCode() / 2];
        SetItemNum = -1;

        for(int z=0;z<SetItem->nItems;z++)
        {
            if (I->ItemCode() != SetItem->Item[z].Code && I->ItemCode() != SetItem->Item[z].IC ) continue;
            SetItemNum = z;
        }

        if (SetItemNum < 0)
            DecodeError = DE_SET_ITEMCODE;
    }
    else
        DecodeError = DE_SET_ITEMCODE;
}
void MagicDecoder::CollectModifiers()
{
    nMods = 0;
    memset(Mod,0,sizeof Mod);

    if (DecodeError) return;

    switch(I->Quality())
    {
    default:
        break;
    case MAGICITEM:
        {
            if (MagicPrefix)
            {
                for(int z=0;z<3;z++)
                {
                    if (!MagicPrefix->Mod[z].Code) continue;
                    Mod[nMods].Code = MagicPrefix->Mod[z].Code;
                    Mod[nMods++].Mag = MagicPrefix->Mod[z].Min + MagicPrefixMag[z];
                }
            }
            if (MagicSuffix)
            {
                for(int z=0;z<3;z++)

```

```

        {
            if (!MagicSuffix->Mod[z].Code) continue;
            Mod[nMods].Code = MagicSuffix->Mod[z].Code;
            Mod[nMods++].Mag = MagicSuffix->Mod[z].Min + MagicSuffixMag[z];
        }
    }
}
break;
case SETITEM:
{
    for(int z = SetItemNum * 2; z < SetItemNum * 2 + 2; z++)
    {
        if (SetItem->Mod[z].Code == 0) continue;

        Mod[nMods].Code = SetItem->Mod[z].Code;
        Mod[nMods++].Mag = SetItem->Mod[z].Min;
    }
}
break;
case RAREITEM:
{
    for(int z = 0; z < 6; z++)
    {
        if (!RareFix[z]) continue;

        for(int y=0; y<3; y++)
        {
            if (!RareFix[z]->Mod[y].Code) continue;

            Mod[nMods].Code = RareFix[z]->Mod[y].Code;
            Mod[nMods++].Mag = RareFix[z]->Mod[y].Min + RareFixMag[z][y];
        }
    }
}
break;
case UNIQUEITEM:
{
    for(int z=0; z<7; z++)
    {
        if (UniqueItem->Mod[z].Code == 0) continue;

        Mod[nMods].Code = UniqueItem->Mod[z].Code;
        Mod[nMods++].Mag = UniqueItem->Mod[z].Min;
    }
}
break;
}
}
bool MagicDecoder::Decode()
{
    Quick = false;
    I->Decoded = false;

    DecodeError = 0;

    ZeroMemory(&ZeroMemoryStart, (&ZeroMemoryEnd - &ZeroMemoryStart));

    switch(I->Quality())
    {
    case CRUDEITEM:
        DecodeCrude();
        break;
    case MAGICITEM:
        DecodeMagical();
        break;
    case SETITEM:
        DecodeSet();
        break;
    case RAREITEM:
        DecodeRare();
        break;
    case UNIQUEITEM:
        DecodeUnique();
        break;
    }

    CollectModifiers();
    I->Decoded = true;
}

```



```

    return I->Decoded;
}
bool MagicDecoder::QuickDecode()
{
    Quick = true;
    bool ODecoded = I->Decoded;
    I->Decoded = false;

    DecodeError = 0;

    ZeroMemory(&ZeroMemoryStart, (&ZeroMemoryEnd - &ZeroMemoryStart));

    switch(I->Quality())
    {
    case CRUDEITEM:
        DecodeCrude();
        break;
    case MAGICITEM:
        DecodeMagical();
        break;
    case SETITEM:
        DecodeSet();
        break;
    case RAREITEM:
        DecodeRare();
        break;
    case UNIQUEITEM:
        DecodeUnique();
        break;
    }

    I->Decoded = ODecoded;
    return true;
}

char MagicDecoder::NameTmp[256];
const char* MagicDecoder::Name()
{
    char *s = NameTmp;
    *s = 0;
    if (!I->Info) I->FindInfo();

    if (!I->Decoded) Decode();

    switch(I->Quality())
    {
    default:
        strcat(s, I->Info->ItemName);
        break;
    case CRUDEITEM:
        strcat(s, CrudePrefix, " ", I->Info->ItemName, 0);
        break;
    case SUPERIORITEM:
        strcat(s, "Superior ", I->Info->ItemName, 0);
        break;
    case MAGICITEM:
        if (MagicPrefix)
        {
            strcat(s, MagicPrefix->Text);
            strcat(s, " ");
        }

        strcat(s, I->Info->ItemName);

        if (MagicSuffix)
        {
            strcat(s, " ");
            strcat(s, MagicSuffix->Text);
        }
        break;
    case RAREITEM:
        if (RarePrefix)
            strcat(s, RarePrefix->Text);

        strcat(s, " ");

        if (RareSuffix)
            strcat(s, RareSuffix->Text);
        break;
    }
}

```

```

case SETITEM:
    strcat(s,I->Info->ItemName);
    break;
case UNIQUEITEM:
    strcat(s,I->Info->ItemName);
    break;
}

return s;
}
char MagicDecoder::AttrTmp[2048];
const char* MagicDecoder::RichAttributes()
{
    *AttrTmp = 0;

    if (DecodeError)
    {
        strcat(AttrTmp,"\\par\\cf6 ");
        strcat(AttrTmp,DecodeErrorString(DecodeError));
        return AttrTmp;
    }

    switch(I->Quality())
    {
    default:
        {
            return "\\par\\cf6 No Attributes!";
        }
    case USUALITEM:
        {
            if (I->Socketed()) {

                for(Item *G = I->Gems;G != 0;G = G->Next())
                {
                    if (!G->FindGemInfo()) break;

                    switch(I->Info->GemClass)
                    {
                    case 'W':
                        {
                            for(int z=0;z<3;z++)
                            {
                                if (!G->GInfo->WeaponMod[z].Code) continue;

                                strcat(AttrTmp,"\\par ");
                                sprintf(buffer,GetEffect(G->GInfo->WeaponMod[z].Code),G->GInfo->WeaponMod[z].Min);
                                strcat(AttrTmp,buffer);

                            }
                        }
                    case 'H':
                        {
                            for(int z=0;z<3;z++)
                            {
                                if (!G->GInfo->HelmMod[z].Code) continue;

                                strcat(AttrTmp,"\\par ");
                                sprintf(buffer,GetEffect(G->GInfo->HelmMod[z].Code),G->GInfo->HelmMod[z].Min);
                                strcat(AttrTmp,buffer);

                            }
                        }
                    case 'S':
                        {
                            for(int z=0;z<3;z++)
                            {
                                if (!G->GInfo->ShieldMod[z].Code) continue;

                                strcat(AttrTmp,"\\par ");
                                sprintf(buffer,GetEffect(G->GInfo->ShieldMod[z].Code),G->GInfo->ShieldMod[z].Min);
                                strcat(AttrTmp,buffer);

                            }
                        }
                    }
                }
            }
        }
    }
}
else {

```

```

        return "\\par\\cf6 Non-Socketed Item has no attributes!";
    }
}
case MAGICITEM:
{
    if (MagicPrefix)
    {
        for(int z=0;z<4;z++)
        {
            if (MagicPrefix->Mod[z].Code == 0) continue;

            strcat(AttrTmp,"\\par ");
            sprintf(buffer,GetEffect(MagicPrefix->Mod[z].Code),MagicPrefix->Mod[z].Min + MagicPrefixMag[z]);
            strcat(AttrTmp,buffer);
#ifdef SHOWMAGICCODE == 1
            strmcat(AttrTmp,"[",CodeStringRev(MagicPrefix->Mod[z].Code),"]",0);
#endif
        }
    }
    if (MagicSuffix)
    {
        for(int z=0;z<4;z++)
        {
            if (MagicSuffix->Mod[z].Code == 0) continue;

            strcat(AttrTmp,"\\par ");
            sprintf(buffer,GetEffect(MagicSuffix->Mod[z].Code),MagicSuffix->Mod[z].Min + MagicSuffixMag[z]);
            strcat(AttrTmp,buffer);
#ifdef SHOWMAGICCODE == 1
            strmcat(AttrTmp,"[",CodeStringRev(MagicSuffix->Mod[z].Code),"]",0);
#endif
        }
    }
}
break;
case RAREITEM:
{
    for(int n=0;n<nRareFix;n++)
    {
        for(int z=0;z<4;z++)
        {
            if (!RareFix[n]) continue;
            if (RareFix[n]->Mod[z].Code == 0) continue;

            strcat(AttrTmp,"\\par ");
            sprintf(buffer,GetEffect(RareFix[n]->Mod[z].Code),RareFix[n]->Mod[z].Min + RareFixMag[n][z]);
            strcat(AttrTmp,buffer);
#ifdef SHOWMAGICCODE == 1
            strmcat(AttrTmp,"[",RareFix[n]->Text,"]",0);
#endif
        }
    }
}
break;
case SETITEM:
{
    if (!SetItem || SetItemNum < 0)
    {
        return "Set Item decoding error!";
    }
    for(int z = SetItemNum * 2;z < SetItemNum * 2 + 2;z++)
    {
        if (SetItem->Mod[z].Code == 0) continue;

        int y = z - SetItemNum * 2;

        strcat(AttrTmp,"\\par ");
        sprintf(buffer,GetEffect(SetItem->Mod[z].Code),SetItem->Mod[z].Min + UniqueSetMag[y]);
        strcat(AttrTmp,buffer);
#ifdef SHOWMAGICCODE == 1
        strmcat(AttrTmp,"[",CodeStringRev(SetItem->Mod[z].Code),"]",0);
#endif
    }
}
break;
case UNIQUEITEM:
{
    if (!UniqueItem)
    {

```

```

        return "Unique Item decoding error!";
    }
    for(int z=0;z<7;z++)
    {
        if (UniqueItem->Mod[z].Code == 0) continue;

        strcat(AttrTmp,"\\par ");
        sprintf(buffer,GetEffect(UniqueItem->Mod[z].Code),UniqueItem->Mod[z].Min + UniqueSetMag[z]);
        strcat(AttrTmp,buffer);
    #if SHOWMAGICCODE == 1
        strcat(AttrTmp,"[",CodeStringRev(UniqueItem->Mod[z].Code),"]",0);
    #endif
    }
    }
    break;
}
return AttrTmp;
}
const char* DecodeErrorString(int Error)
{
    switch(Error)
    {
    default:
        return "No Error";

    case DE_MAGIC_PREFIX_MODULO_ZERO:
        return "Error decoding Magical Prefix! (Modulo is zero)";
    case DE_MAGIC_PREFIX_MODIFIER_VALMISSING:
        return "Error decoding Magical Prefix! (Modifier Specifier missing)";
    case DE_MAGIC_SUFFIX_MODULO_ZERO:
        return "Error decoding Magical Suffix! (Modulo is zero)";
    case DE_MAGIC_SUFFIX_MODIFIER_VALMISSING:
        return "Error decoding Magical Suffix! (Modifier Specifier missing)";

    case DE_RARE_NAMEPREFIX_MODULO_ZERO:
        return "Error decoding Rare Name Prefix! (Modulo is zero)";
    case DE_RARE_NAMESUFFIX_MODULO_ZERO:
        return "Error decoding Rare Name Suffix! (Modulo is zero)";
    case DE_RARE_PRESUFFIX_MODULO_ZERO:
        return "Error decoding Rare Item Attributes! (Buffer Modulo is zero)";
    case DE_RARE_PRESUFFIX_NOPOSSIBLE:
        return "Error decoding Rare Item Attributes! (No more Modifiers available)";
    case DE_RARE_PRESUFFIX_MODIFIER_VALMISSING:
        return "Error decoding Rare Item Attributes! (Modifier Specifier missing)";

    case DE_UNIQUE_ITEMCODE:
        return "Error decoding Unique Item Code! (Invalid Code)";
    case DE_SET_ITEMCODE:
        return "Error decoding Set Item Code! (Invalid Code)";
    }
}

// Double Word History Class
DWHistory::DWHistory()
{
    Top = Bottom = Ptr = 0;
}
DWHistory::~DWHistory()
{
}

bool DWHistory::isNext()
{
    return !(Top == Ptr);
}
bool DWHistory::isBack()
{
    return !(Ptr == Bottom);
}
void DWHistory::StepAdd(Item *I)
{
    ML[Ptr] = I->MagicLevel();
    DWA[Ptr] = I->DWA();
    DWB[Ptr] = I->DWB();

    if (++Ptr >= HISTORYSTEPS)
        Ptr = 0;
}

```

```
Top = Ptr;

if (Top == Bottom)
    if (++Bottom >= HISTORYSTEPS)
        Bottom = 0;
}
void DWHistory::StepBack(Item *I)
{
    if (Ptr == Bottom) return;

    ML[Ptr] = I->MagicLevel();
    DWA[Ptr] = I->DWA();
    DWB[Ptr] = I->DWB();

    Ptr--;
    if (Ptr < 0)
        Ptr = HISTORYSTEPS-1;

    I->SetMagicLevel(ML[Ptr]);
    I->SetDWA(DWA[Ptr]);
    I->SetDWB(DWB[Ptr]);

    I->Info = 0;
    I->Decoded = 0;
}
void DWHistory::StepNext(Item *I)
{
    if (Ptr == Top) return;

    if (++Ptr > HISTORYSTEPS)
        Ptr = 0;

    I->SetMagicLevel(ML[Ptr]);
    I->SetDWA(DWA[Ptr]);
    I->SetDWB(DWB[Ptr]);

    I->Info = 0;
    I->Decoded = 0;
}
```

#include "Jamellad2E.h"

struct _MagicPreSuffix MagicPrefixTable[] =

```

0, "Resiliant", 1, 0, 101, 0, 'ar00', 1, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 8192, 0, 16, "Not Available" },
1, "Sturdy", 4, 3, 102, 1, 'ar02', 20, 30, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1797, 0, 16, "+20-30% to Defense" },
2, "Strong", 9, 6, 102, 1, 'ar02', 31, 40, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1797, 0, 16, "+31-40% to Defense" },
3, "Glorious", 19, 14, 102, 1, 'ar02', 41, 50, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1797, 0, 16, "+41-50% to Defense" },
4, "Blessed", 25, 18, 102, 1, 'ar02', 51, 65, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1797, 0, 16, "+51-60% to Defense" },
5, "Saintly", 31, 23, 102, 1, 'ar02', 66, 80, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1797, 1, 16, "+61-80% to Defense" },
6, "Holy", 36, 27, 102, 1, 'ar02', 81, 100, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1797, 1, 16, "+81-100% to Defense" },
7, "Devious", 7, 5, 103, 0, 'ar03', 1, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 4, 1, 5, "Magic Damage Reduced by 1" },
8, "Fortified", 14, 10, 103, 0, 'ar03', 2, 2, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 4, 1, 5, "Magic Damage Reduced by 2" },
9, "Urgent", 9, 6, 104, 0, 'at02', 10, 10, 'tm00', 150, 150, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 3, "Not Available" },
10, "Fleet", 6, 4, 104, 0, 'at03', 20, 20, 'tm00', 150, 150, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 3, "Not Available" },
11, "Muscular", 12, 9, 105, 0, 'dm01', 1, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 8192, 0, 3, "Not Available" },
12, "Jagged", 1, 0, 106, 2, 'dm02', 10, 20, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 242, 0, 16, "+20-30% to Damage" },
13, "Deadly", 5, 3, 106, 2, 'dm02', 21, 30, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 8434, 0, 16, "+21-30% to Damage" },
14, "Vicious", 8, 6, 106, 2, 'dm02', 31, 40, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 242, 0, 16, "+31-40% to Damage" },
15, "Brutal", 14, 10, 106, 2, 'dm02', 41, 50, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 242, 0, 16, "+41-50% to Damage" },
16, "Massive", 20, 15, 106, 2, 'dm02', 51, 65, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 242, 1, 16, "+51-65% to Damage" },
17, "Savage", 26, 19, 106, 2, 'dm02', 66, 80, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 146, 1, 16, "+66-80% to Damage" },
18, "Merciless", 32, 24, 106, 2, 'dm02', 81, 100, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 146, 1, 16, "+81-100% to Damage" },
19, "Vulpine", 9, 6, 107, 0, 'dm03', 10, 10, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 4100, 1, 6, "Damage Generates 10% Mana" },
20, "Swift", 4, 3, 108, 0, 'dx00', 1, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 16, "Not Available" },
21, "Artful", 3, 2, 108, 0, 'dx00', 20, 20, 'tm00', 150, 150, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 3, "Not Available" },
22, "Skillful", 23, 17, 108, 0, 'dx00', 50, 50, 'tm00', 150, 150, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 3, "Not Available" },
23, "Adroit", 26, 19, 108, 0, 'dx00', 100, 100, 'tm00', 150, 150, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 3, "Not Available" },
24, "Tireless", 14, 10, 109, 0, 'hl08', 50, 50, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 256, 0, 2, "+ Stamina Regeneration" },
25, "Rugged", 14, 10, 110, 1, 'hl12', 5, 10, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 16128, 0, 2, "+ 5-10 to Max Stamina" },
26, "Bronze", 1, 0, 111, 1, 'ht00', 10, 20, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 6898, 0, 15, "+10-20 to Attack Rating" },
27, "Iron", 4, 3, 111, 1, 'ht00', 21, 40, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 2290, 0, 15, "+21-40 to Attack Rating" },
28, "Steel", 8, 6, 111, 1, 'ht00', 41, 60, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 2290, 0, 15, "+41-60 to Attack Rating" },
29, "Silver", 12, 9, 111, 1, 'ht00', 61, 80, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 2290, 0, 15, "+61-80 to Attack Rating" },
30, "Silver", 17, 12, 111, 1, 'ht00', 40, 80, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 15, "Not Available" },
31, "Gold", 17, 12, 111, 1, 'ht00', 81, 100, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 242, 1, 15, "+81-100 to Attack Rating" },
32, "Platinum", 22, 16, 111, 1, 'ht00', 101, 120, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 2290, 1, 15, "+101-120 to Attack Rating" },
33, "Meteoric", 27, 20, 111, 1, 'ht00', 121, 150, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 2194, 1, 15, "+121-150 to Attack Rating" },
34, "Sharp", 5, 3, 112, 3, 'ht00', 10, 20, 'dm02', 10, 20, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 242, 0, 16, "+10-20 to AR & +10-20 to Damage" },
35, "Fine", 9, 6, 112, 3, 'ht00', 21, 40, 'dm02', 21, 30, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 242, 0, 16, "+21-40 to AR & +21-30 to Damage" },
36, "Warrior's", 15, 11, 112, 3, 'ht00', 41, 60, 'dm02', 31, 40, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 242, 0, 16, "+41-60 to AR & +31-40 to Damage" },
37, "Soldier's", 21, 15, 112, 3, 'ht00', 61, 80, 'dm02', 41, 50, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 242, 0, 16, "+61-80 to AR & +41-50 to Damage" },
38, "Knight's", 25, 18, 112, 3, 'ht00', 81, 100, 'dm02', 51, 65, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 242, 1, 16, "+81-100 to AR & +51-65 to Damage" },
39, "Lord's", 30, 22, 112, 3, 'ht00', 101, 120, 'dm02', 66, 80, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 146, 1, 16, "+101-120 to AR & +66-80 to Damage" },
40, "King's", 35, 26, 112, 3, 'ht00', 121, 150, 'dm02', 81, 100, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 146, 1, 16, "+121-150 to AR & +81-100 to Damage" },
41, "Howling", 16, 12, 113, 0, 'hw00', 1, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 114, 1, 19, "Make Monsters Flee" },
42, "Fortuitous", 5, 3, 114, 1, 'ib01', 10, 15, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 14336, 0, 15, "10-15% Better Chance of Getting Magic Items" },
43, "Brilliant", 4, 3, 115, 0, 'mm00', 10, 10, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 16, "Not Available" },
44, "Omniscient", 1, 0, 115, 0, 'in00', 10, 10, 'tm00', 150, 150, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 16384, 0, 3, "Not Available" },
45, "Sage", 8, 6, 115, 0, 'in00', 20, 20, 'tm00', 150, 150, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 16384, 1, 3, "Not Available" },
46, "Shrewd", 23, 17, 115, 0, 'in00', 50, 50, 'tm00', 150, 150, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 16384, 1, 3, "Not Available" },
47, "Vivid", 27, 20, 115, 0, 'in00', 100, 100, 'tm00', 150, 150, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 16384, 1, 3, "Not Available" },
48, "Glimmering", 1, 0, 116, 0, 'lt00', 1, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 32613, 0, 13, "+1 to Light Radius" },
49, "Glowing", 6, 4, 116, 0, 'lt00', 2, 2, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 32613, 1, 13, "+2 to Light Radius" },
50, "Bright", 9, 6, 117, 0, 'mh01', 50, 50, 'tm00', 150, 150, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 3, "Not Available" },
51, "Solar", 20, 15, 117, 0, 'mh01', 100, 100, 'tm00', 150, 150, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 3, "Not Available" },
52, "Lizard's", 3, 2, 118, 1, 'mm00', 1, 5, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 31861, 0, 6, "+1-5 to Mana" },
53, "Forceful", 13, -1, 118, 0, 'mm00', 5, 5, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 24576, 0, 6, "Not Available" },
54, "Snake's", 6, 4, 118, 1, 'mm00', 5, 10, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 23668, 0, 6, "+5-10 to Mana" },
55, "Serpent's", 14, 10, 118, 1, 'mm00', 11, 20, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 23668, 0, 6, "+11-20 to Mana" },
56, "Serpent's", 37, 27, 118, 1, 'mm00', 11, 20, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 771, 0, 6, "+11-20 to Mana" },
57, "Drake's", 20, 15, 118, 1, 'mm00', 21, 30, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 23664, 1, 6, "+21-30 to Mana" },
58, "Dragon's", 24, 18, 118, 1, 'mm00', 31, 40, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 22640, 1, 6, "+31-40 to Mana" },
59, "Dragon's", 52, 39, 118, 1, 'mm00', 31, 40, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 769, 1, 6, "+31-40 to Mana" },
60, "Wym's", 30, 22, 118, 1, 'mm00', 41, 60, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 22640, 1, 6, "+41-50 to Mana" },
61, "Dazzling", 9, 6, 119, 0, 'mm01', 50, 50, 'tm00', 150, 150, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 16384, 0, 3, "Not Available" },
62, "Fascinating", 20, 15, 119, 0, 'mm01', 100, 100, 'tm00', 150, 150, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 16384, 0, 3, "Not Available" },
63, "Prismatic", 27, 20, 120, 4, 'rf00', 15, 25, 'rl00', 15, 25, 'rc00', 15, 25, 'rp00', 15, 25, 4096, 1, 17, "+15-25% to all Resistances" },
64, "Prismatic", 62, 46, 120, 0, 'ra00', 15, 15, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 2048, 1, 17, "+15% to all Resistances" },
65, "Azure", 5, 3, 121, 1, 'rc00', 5, 10, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 32757, 0, 4, "+5-10% to Cold Resist" },
66, "Lapis", 12, 9, 121, 1, 'rc00', 11, 20, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 24437, 0, 4, "+11-20% to Cold Resist" },
67, "Lapis", 35, 26, 121, 1, 'rc00', 11, 20, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 642, 0, 4, "+11-20% to Cold Resist" },
68, "Cobalt", 18, 13, 121, 1, 'rc00', 21, 30, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 23925, 0, 4, "+21-30% to Cold Resist" },
69, "Cobalt", 55, 41, 121, 1, 'rc00', 21, 30, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 642, 0, 4, "+21-30% to Cold Resist" },
70, "Indigo", 3, 2, 121, 0, 'rc00', 25, 25, 'tm00', 150, 150, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 16384, 0, 3, "Not Available" },
71, "Sapphire", 25, 18, 121, 1, 'rc00', 31, 50, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 31200, 1, 4, "+31-50% to Cold Resist" },
72, "Cerulean", 7, 5, 121, 0, 'rc00', 50, 50, 'tm00', 150, 150, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 16384, 1, 3, "Not Available" },

```

```

73, "Red", 7, 5, 122, 0, 'rf00', 2, 2, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 24576, 0, 7, "Not Available" },
74, "Crimson", 5, 3, 122, 1, 'rf00', 5, 10, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 24565, 0, 7, "+5-10% to Fire Resist" },
75, "Burgundy", 12, 9, 122, 1, 'rf00', 11, 20, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 24437, 0, 7, "+11-20% to Fire Resist" },
76, "Burgundy", 35, 26, 122, 1, 'rf00', 11, 20, 0, 0, 0, 0, 0, 0, 0, 0, 0, 130, 0, 7, "+11-20% to Fire Resist" },
77, "Garnet", 18, 13, 122, 1, 'rf00', 21, 30, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 23925, 0, 7, "+21-30% to Fire Resist" },
78, "Garnet", 55, 41, 122, 3, 'rf00', 21, 30, 0, 0, 0, 0, 0, 0, 0, 0, 0, 642, 0, 7, "+21-30% to Fire Resist" },
79, "Russet", 3, 2, 122, 0, 'rf00', 25, 25, 'tm00', 150, 150, 0, 0, 0, 0, 0, 0, 0, 0, 0, 16384, 0, 3, "Not Available" },
80, "Ruby", 25, 18, 122, 1, 'rf00', 31, 50, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 22880, 1, 7, "+31-50% to Fire Resist" },
81, "Vermilion", 7, 5, 122, 0, 'rf00', 50, 50, 'tm00', 150, 150, 0, 0, 0, 0, 0, 0, 0, 0, 16384, 1, 3, "Not Available" },
82, "Orange", 7, 5, 123, 0, 'rl00', 2, 2, 0, 0, 0, 0, 0, 0, 0, 0, 0, 24576, 0, 13, "Not Available" },
83, "Orange", 5, 3, 123, 1, 'rl00', 5, 10, 0, 0, 0, 0, 0, 0, 0, 0, 0, 24565, 0, 13, "+5-10% to Lightning Resist" },
84, "Tangerine", 12, 9, 123, 1, 'rl00', 11, 20, 0, 0, 0, 0, 0, 0, 0, 0, 0, 24437, 0, 13, "+11-20% to Lightning Resist" },
85, "Tangerine", 35, 26, 123, 1, 'rl00', 11, 20, 0, 0, 0, 0, 0, 0, 0, 0, 0, 130, 0, 13, "+11-20% to Lightning Resist" },
86, "Coral", 18, 13, 123, 1, 'rl00', 21, 30, 0, 0, 0, 0, 0, 0, 0, 0, 0, 23925, 0, 13, "+21-30% to Lightning Resist" },
87, "Coral", 55, 41, 123, 1, 'rl00', 21, 30, 0, 0, 0, 0, 0, 0, 0, 0, 0, 642, 0, 13, "+21-30% to Lightning Resist" },
88, "Crackling", 3, 2, 123, 0, 'rl00', 25, 25, 'tm00', 150, 150, 0, 0, 0, 0, 0, 0, 0, 0, 16384, 0, 3, "Not Available" },
89, "Amber", 25, 18, 123, 1, 'rl00', 31, 50, 0, 0, 0, 0, 0, 0, 0, 0, 0, 23905, 1, 13, "+31-50% to Lightning Resist" },
90, "Forked", 21, 15, 123, 0, 'rl00', 50, 50, 'tm00', 150, 150, 0, 0, 0, 0, 0, 0, 0, 0, 16384, 1, 3, "Not Available" },
91, "Green", 7, 5, 124, 0, 'rp00', 2, 2, 0, 0, 0, 0, 0, 0, 0, 0, 0, 8192, 0, 10, "Not Available" },
92, "Beryl", 5, 3, 124, 1, 'rp00', 5, 10, 0, 0, 0, 0, 0, 0, 0, 0, 0, 8149, 0, 10, "+5-10% to Poison Resist" },
93, "Jade", 12, 9, 124, 1, 'rp00', 11, 20, 0, 0, 0, 0, 0, 0, 0, 0, 0, 8021, 0, 10, "+11-20% to Poison Resist" },
94, "Jade", 35, 26, 124, 1, 'rp00', 11, 20, 0, 0, 0, 0, 0, 0, 0, 0, 0, 2210, 0, 10, "+11-20% to Poison Resist" },
95, "Viridian", 18, 13, 124, 1, 'rp00', 21, 30, 0, 0, 0, 0, 0, 0, 0, 0, 0, 6229, 0, 10, "+21-30% to Poison Resist" },
96, "Viridian", 55, 41, 124, 1, 'rp00', 21, 30, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1954, 0, 10, "+21-30% to Poison Resist" },
97, "Vital", 11, 8, 124, 0, 'rp00', 25, 25, 'tm00', 150, 150, 0, 0, 0, 0, 0, 0, 0, 0, 0, 3, "Not Available" },
98, "Emerald", 25, 18, 124, 1, 'rp00', 31, 50, 0, 0, 0, 0, 0, 0, 0, 0, 0, 6160, 1, 10, "+31-50% to Poison Resist" },
99, "Enduring", 14, 10, 124, 0, 'rp00', 50, 50, 'tm00', 150, 150, 0, 0, 0, 0, 0, 0, 0, 0, 0, 3, "Not Available" },
100, "Fletcher's", 30, 22, 125, 0, 'sk00', 1, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 4224, 0, 12, "+1 to Amazon Skill Levels" },
101, "Archer's", 40, 30, 125, 0, 'sk00', 2, 2, 0, 0, 0, 0, 0, 0, 0, 0, 0, 128, 1, 12, "+2 to Amazon Skill Levels" },
102, "Archer's", 90, 67, 125, 0, 'sk00', 2, 2, 0, 0, 0, 0, 0, 0, 0, 0, 0, 4096, 1, 12, "+2 to Amazon Skill Levels" },
103, "Monk's", 30, 22, 126, 0, 'sk01', 1, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 4112, 0, 12, "+1 to Paladin Skill Levels" },
104, "Priest's", 40, 30, 126, 0, 'sk01', 2, 2, 0, 0, 0, 0, 0, 0, 0, 0, 0, 16, 1, 12, "+2 to Paladin Skill Levels" },
105, "Priest's", 90, 67, 126, 0, 'sk01', 2, 2, 0, 0, 0, 0, 0, 0, 0, 0, 0, 4096, 1, 12, "+2 to Paladin Skill Levels" },
106, "Summoner's", 30, 22, 127, 0, 'sk02', 1, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 4128, 0, 12, "+1 to Necromancer Skill Levels" },
107, "Necromancer's", 40, 30, 127, 0, 'sk02', 2, 2, 0, 0, 0, 0, 0, 0, 0, 0, 0, 32, 1, 12, "+2 to Necromancer Skill Levels" },
108, "Necromancer's", 90, 67, 127, 0, 'sk02', 2, 2, 0, 0, 0, 0, 0, 0, 0, 0, 0, 4096, 1, 12, "+2 to Necromancer Skill Levels" },
109, "Angel's", 30, 22, 128, 0, 'sk03', 1, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 20544, 0, 12, "+1 to Sorceress Skill Levels" },
110, "Arch-Angel's", 40, 30, 128, 0, 'sk03', 2, 2, 0, 0, 0, 0, 0, 0, 0, 0, 0, 64, 1, 12, "+2 to Sorceress Skill Levels" },
111, "Arch-Angel's", 90, 67, 128, 0, 'sk03', 2, 2, 0, 0, 0, 0, 0, 0, 0, 0, 0, 20480, 1, 12, "+2 to Sorceress Skill Levels" },
112, "Slayer's", 30, 22, 129, 0, 'sk04', 1, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 4098, 0, 12, "+1 to Barbarian Skill Levels" },
113, "Berserker's", 40, 30, 129, 0, 'sk04', 2, 2, 0, 0, 0, 0, 0, 0, 0, 0, 0, 2, 1, 12, "+2 to Barbarian Skill Levels" },
114, "Berserker's", 90, 67, 129, 0, 'sk04', 2, 2, 0, 0, 0, 0, 0, 0, 0, 0, 0, 4096, 1, 12, "+2 to Barbarian Skill Levels" },
115, "unused", 9, 6, 130, 0, 'sk05', 1, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, "Not Available" },
116, "Kicking", 3, 2, 131, 1, 'sp04', 1, 3, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 3, "Not Available" },
117, "Triumphant", 3, 2, 132, 0, 'sp05', 1, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 2162, 0, 6, "+1 to Life per Kill" },
118, "Mighty", 4, 3, 133, 0, 'st00', 1, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 16, "Not Available" },
119, "Empowering", 3, 2, 133, 0, 'st00', 20, 20, 'tm00', 150, 150, 0, 0, 0, 0, 0, 0, 0, 0, 0, 3, "Not Available" },
120, "Strengthening", 23, 17, 133, 0, 'st00', 50, 50, 'tm00', 150, 150, 0, 0, 0, 0, 0, 0, 0, 0, 0, 3, "Not Available" },
121, "Empowering", 26, 19, 133, 0, 'st00', 100, 100, 'tm00', 150, 150, 0, 0, 0, 0, 0, 0, 0, 0, 0, 3, "Not Available" },
122, "Brisk", 5, 3, 134, 0, 've01', 10, 10, 'tm00', 150, 150, 0, 0, 0, 0, 0, 0, 0, 0, 0, 3, "Not Available" },
123, "Swift", 19, 14, 134, 0, 've02', 20, 20, 'tm00', 150, 150, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 3, "Not Available" },
124, "Tough", 4, 3, 135, 0, 'mh00', 10, 10, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 16, "Not Available" },
125, "Sturdy", 11, 8, 135, 0, 'mh00', 20, 20, 'tm00', 150, 150, 0, 0, 0, 0, 0, 0, 0, 0, 0, 3, "Not Available" },
126, "Hardy", 23, 17, 135, 0, 'mh00', 50, 50, 'tm00', 150, 150, 0, 0, 0, 0, 0, 0, 0, 0, 0, 3, "Not Available" },
127, "Robust", 27, 20, 135, 0, 'mh00', 100, 100, 'tm00', 150, 150, 0, 0, 0, 0, 0, 0, 0, 0, 0, 3, "Not Available" },

```

```

struct _MagicPreSuffix MagicSuffixTable[] =

```

```

0, "of Health", 7, 5, 1, 0, 'ar01', 1, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 6149, 0, 5, "Damage Reduction by 1" },
1, "of Protection", 18, 13, 1, 0, 'ar01', 2, 2, 0, 0, 0, 0, 0, 0, 0, 0, 0, 6144, 0, 5, "Damage Reduction by 2" },
2, "of Absorption", 26, 19, 1, 0, 'ar01', 3, 3, 0, 0, 0, 0, 0, 0, 0, 0, 0, 4096, 0, 5, "Damage Reduction by 3" },
3, "of Life", 35, 26, 1, 0, 'ar01', 4, 4, 0, 0, 0, 0, 0, 0, 0, 0, 0, 12288, 1, 5, "Damage Reduction by 4" },
4, "of Life", 35, 26, 1, 0, 'ar01', 4, 4, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 5, "Damage Reduction by 4" },
5, "of Warding", 7, 5, 2, 0, 'ar03', 1, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 14341, 0, 5, "Magic Damage Reduction by 1" },
6, "of the Sentinel", 18, 13, 2, 0, 'ar03', 2, 2, 0, 0, 0, 0, 0, 0, 0, 0, 0, 6144, 0, 5, "Magic Damage Reduction by 2" },
7, "of Guarding", 26, 19, 2, 0, 'ar03', 3, 3, 0, 0, 0, 0, 0, 0, 0, 0, 0, 4096, 0, 5, "Magic Damage Reduction by 3" },
8, "of Negation", 35, 26, 2, 0, 'ar03', 4, 4, 0, 0, 0, 0, 0, 0, 0, 0, 0, 4096, 0, 5, "Magic Damage Reduction by 4" },
9, "unused", 35, 26, 2, 1, 'ar03', 5, 6, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 5, "Not Available" },
10, "of Piercing", 25, 18, 3, 0, 'ar04', 1, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 112, 0, 19, "Attack Ignores Target's Defense" },
11, "of Bashing", 16, 12, 4, 1, 'ar05', -25, -40, 0, 0, 0, 0, 0, 0, 0, 0, 0, 18, 0, 19, "-25-40 of Monster's Defense" },
12, "of Puncturing", 6, 4, 4, 1, 'ar05', -10, -20, 0, 0, 0, 0, 0, 0, 0, 0, 0, 18, 0, 19, "-10-20 of Monster's Defense" },
13, "of Thorns", 14, 10, 5, 1, 'at00', 1, 3, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1029, 0, 19, "Attack Takes 1-4 Damage" },
14, "of Spikes", 21, 15, 5, 1, 'at00', 2, 6, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1029, 1, 19, "Attack Takes 2-6 Damage" },
15, "of Readiness", 1, 0, 6, 0, 'at01', 10, 10, 0, 0, 0, 0, 0, 0, 0, 0, 0, 754, 0, 14, "Slightly Increased Weapon Speed" },
16, "of Alacrity", 8, 6, 6, 0, 'at02', 20, 20, 0, 0, 0, 0, 0, 0, 0, 0, 0, 242, 0, 14, "Increased Weapon Speed" },
17, "of Swift", 19, 14, 6, 0, 'at02', 30, 30, 0, 0, 0, 0, 0, 0, 0, 0, 0, 18, 0, 14, "Increased Weapon Speed" },
18, "of Quickness", 25, 18, 6, 0, 'at03', 40, 40, 0, 0, 0, 0, 0, 0, 0, 0, 0, 18, 1, 14, "Greatly Increased Weapon Speed" },
19, "of Blocking", 1, 0, 7, 0, 'bl00', 10, 10, 0, 0, 0, 0, 0, 0, 0, 0, 0, 4, 0, 14, "+10% Chance to Block" },
20, "of Deflecting", 11, 8, 7, 0, 'bl00', 20, 20, 0, 0, 0, 0, 0, 0, 0, 0, 0, 4, 0, 14, "+20% Chance to Block" },

```

```

21,"of the Apprentice",5,3,8,0,'ca00',10,10,0,0,0,0,0,0,0,0,0,0,22640,0,14,"Fast Cast Time" },
22,"of the Magus",17,12,8,0,'ca02',20,20,0,0,0,0,0,0,0,0,0,0,16496,0,14,"Fastest Cast Time" },
23,"of Frost",4,3,9,1,'dc00',1,1,'dc01',1,4,'dc03',125,125,0,0,0,0,242,0,5,"+1-4 Cold Damage" },
24,"of the Glacier",18,13,9,1,'dc00',4,4,'dc01',4,12,'dc03',150,150,0,0,0,0,114,0,5,"+4-12 Cold Damage" },
25,"of Frost",55,41,9,1,'dc00',1,1,'dc01',1,4,'dc03',125,125,0,0,0,0,5120,0,5,"+1-4 Cold Damage" },
26,"of Warmth/Thawing",10,7,10,0,'dc02',1,1,0,0,0,0,0,0,0,0,0,23300,0,4,"Freeze Length Reduction" },
27,"of Flame",4,3,11,1,'df00',1,1,'df01',2,6,0,0,0,0,0,0,0,0,242,0,8,"+2-6 Fire Damage" },
28,"of Fire",15,11,11,1,'df00',2,2,'df01',6,11,0,0,0,0,0,0,0,0,242,0,8,"+6-11 Fire Damage" },
29,"of Burning",25,18,11,1,'df00',10,10,'df01',10,20,0,0,0,0,0,0,0,0,242,1,8,"+10-20 Fire Damage" },
30,"of Flame",40,30,11,1,'df00',1,1,'df01',2,6,0,0,0,0,0,0,0,0,6656,0,8,"+2-6 Fire Damage" },
31,"of Shock",4,3,12,0,'dl00',1,1,'dl01',8,8,0,0,0,0,0,0,0,0,242,0,14,"+1-8 Lightning Damage" },
32,"of Lightning",15,11,12,0,'dl00',1,1,'dl01',16,16,0,0,0,0,0,0,0,0,242,0,14,"+1-16 Lightning Damage" },
33,"of Thunder",25,18,12,0,'dl00',1,1,'dl01',32,32,0,0,0,0,0,0,0,0,242,1,14,"+1-32 Lightning Damage" },
34,"of Shock",50,37,12,0,'dl00',1,1,'dl01',8,8,0,0,0,0,0,0,0,0,6402,0,14,"+1-8 Lightning Damage" },
35,"of Craftsmanship",1,0,13,1,'dm00',1,2,0,0,0,0,0,0,0,0,0,0,6386,0,3,"+1-2 to Maximum Damage" },
36,"of Quality",4,3,13,1,'dm00',2,2,0,0,0,0,0,0,0,0,0,0,242,0,3,"+2 to Maximum Damage" },
37,"of Maiming",7,5,13,1,'dm00',3,4,0,0,0,0,0,0,0,0,0,0,242,0,3,"+3-4 to Maximum Damage" },
38,"of Slaying",11,8,13,1,'dm00',5,7,0,0,0,0,0,0,0,0,0,0,242,0,3,"+5-7 to Maximum Damage" },
39,"of Gore",14,10,13,1,'dm00',8,10,0,0,0,0,0,0,0,0,0,0,242,0,3,"+8-10 to Maximum Damage" },
40,"of Carnage",19,14,13,1,'dm00',11,14,0,0,0,0,0,0,0,0,0,0,146,1,3,"+11-15 to Maximum Damage" },
41,"of Slaughter",25,18,13,1,'dm00',15,20,0,0,0,0,0,0,0,0,0,0,146,1,3,"+15-20 to Maximum Damage" },
42,"of Maiming",42,31,13,1,'dm00',3,4,0,0,0,0,0,0,0,0,0,0,6148,0,3,"+3-4 to Maximum Damage" },
43,"of Worth",2,0,14,0,'dm01',1,1,0,0,0,0,0,0,0,0,0,0,8322,0,3,"+1 to Minimum Damage" },
44,"of Measure",6,4,14,0,'dm01',2,2,0,0,0,0,0,0,0,0,0,0,242,0,3,"+2 to Minimum Damage" },
45,"of Excellence",12,9,14,0,'dm01',3,3,0,0,0,0,0,0,0,0,0,0,6386,0,3,"+3 to Minimum Damage" },
46,"of Performance",18,13,14,1,'dm01',4,5,0,0,0,0,0,0,0,0,0,0,242,1,3,"+4-5 to Minimum Damage" },
47,"of Measure",37,27,14,0,'dm01',2,2,0,0,0,0,0,0,0,0,0,0,6145,0,3,"+2 to Minimum Damage" },
48,"of Blight",5,3,15,0,'dp00',8,8,'dp01',24,24,'dp02',75,75,0,0,0,0,226,0,11,"+2-7 to Poison Damage" },
49,"of Venom",15,11,15,0,'dp00',16,16,'dp01',48,48,'dp02',75,75,0,0,0,0,226,0,11,"+4-14 to Poison Damage" },
50,"of Pestilence",25,18,15,0,'dp00',32,32,'dp01',72,72,'dp02',100,100,0,0,0,0,226,1,11,"+12-28 to Poison Damage" },
51,"of Blight",45,33,15,0,'dp00',8,8,'dp01',24,24,'dp02',75,75,0,0,0,0,6144,0,11,"+2-7 to Poison Damage" },
52,"of Dexterity",4,3,16,0,'dx00',1,1,0,0,0,0,0,0,0,0,0,0,14336,0,16,"+1-3 to Dexterity" },
53,"of Dexterity",5,3,16,1,'dx00',1,3,0,0,0,0,0,0,0,0,0,0,7056,0,16,"+1-3 to Dexterity" },
54,"of Skill",10,7,16,1,'dx00',4,6,0,0,0,0,0,0,0,0,0,0,7056,0,16,"+4-6 to Dexterity" },
55,"of Skill",45,33,16,1,'dx00',4,6,0,0,0,0,0,0,0,0,0,0,1029,0,16,"+4-6 to Dexterity" },
56,"of Accuracy",18,13,16,1,'dx00',7,10,0,0,0,0,0,0,0,0,0,0,7056,0,16,"+7-10 to Dexterity" },
57,"of Precision",22,16,16,1,'dx00',11,15,0,0,0,0,0,0,0,0,0,0,4240,0,16,"+11-15 to Dexterity" },
58,"of Precision",60,45,16,1,'dx00',11,15,0,0,0,0,0,0,0,0,0,0,3845,0,16,"+11-15 to Dexterity" },
59,"of Perfection",30,22,16,1,'dx00',16,20,0,0,0,0,0,0,0,0,0,0,4736,1,16,"+16-20 to Dexterity" },
60,"of Balance",5,3,17,0,'gh00',10,10,0,0,0,0,0,0,0,0,0,0,9477,0,14,"Fast Hit Recovery" },
61,"of Stability",9,6,17,0,'gh02',20,20,0,0,0,0,0,0,0,0,0,0,1285,1,14,"Fastest Hit Recovery" },
62,"of the Horse",1,0,18,0,'hl08',50,50,0,0,0,0,0,0,0,0,0,0,16384,0,15,"Not Available" },
63,"of Regeneration",10,7,19,0,'lf00',3,3,0,0,0,0,0,0,0,0,0,0,7184,0,9,"+3 to Life Regeneration" },
64,"of Regeneration",40,30,19,0,'lf00',3,3,0,0,0,0,0,0,0,0,0,0,516,0,9,"+3 to Life Regeneration" },
65,"of Regeneration",70,52,19,0,'lf00',3,3,0,0,0,0,0,0,0,0,0,0,483,0,9,"+3 to Life Regeneration" },
66,"of Regrowth",17,12,19,0,'lf00',5,5,0,0,0,0,0,0,0,0,0,0,4112,1,9,"+5 to Life Regeneration" },
67,"of Regrowth",55,41,19,0,'lf00',5,5,0,0,0,0,0,0,0,0,0,0,3072,1,9,"+5 to Life Regeneration" },
68,"of Vileness",9,6,20,0,'hl10',1,1,0,0,0,0,0,0,0,0,0,0,98,0,3,"Prevent Monster Healing" },
69,"of the Ox",1,0,21,1,'hl12',3,5,0,0,0,0,0,0,0,0,0,0,2,"Not Available" },
70,"of Greed",2,0,22,1,'ib00',40,60,0,0,0,0,0,0,0,0,0,0,6144,0,15,"40-60% More Gold" },
71,"of Wealth",17,12,22,1,'ib00',80,120,0,0,0,0,0,0,0,0,0,0,5888,1,15,"80-120% More Gold" },
72,"of Chance",12,9,23,1,'ib01',10,19,0,0,0,0,0,0,0,0,0,0,30720,0,15,"10-19% Better Chance of Getting Magic Item" },
73,"of Fortune",16,12,23,1,'ib01',20,35,0,0,0,0,0,0,0,0,0,0,13056,1,15,"20-35% Better Chance of Getting Magic Item" },
74,"of Energy",4,3,24,0,'mm00',1,1,0,0,0,0,0,0,0,0,0,0,30720,0,16,"+1-5 to Energy" },
75,"of Energy",5,3,24,1,'mm00',1,5,0,0,0,0,0,0,0,0,0,0,22640,0,16,"+1-5 to Energy" },
76,"of the Mind",10,7,24,1,'mm00',6,10,0,0,0,0,0,0,0,0,0,0,22640,0,16,"+6-10 to Energy" },
77,"of Brilliance",18,13,24,1,'mm00',11,15,0,0,0,0,0,0,0,0,0,0,22640,0,16,"+11-15 to Energy" },
78,"of Sorcery",22,16,24,1,'mm00',16,20,0,0,0,0,0,0,0,0,0,0,20592,1,16,"+16-20 to Energy" },
79,"of Wizardry",30,22,24,1,'mm00',21,30,0,0,0,0,0,0,0,0,0,0,22640,1,16,"+21-30 to Energy" },
80,"of the Bear",8,6,25,0,'ko00',1,1,0,0,0,0,0,0,0,0,0,0,114,0,19,"Monster Knockback" },
81,"of Light",6,4,26,0,'lt00',1,1,0,0,0,0,0,0,0,0,0,0,32757,0,13,"+1 to Light Radius" },
82,"of Radiance",15,11,26,0,'lt00',3,3,0,0,0,0,0,0,0,0,0,0,22768,0,13,"+2 to Light Radius" },
83,"of the Sun",17,12,26,0,'lt00',5,5,0,0,0,0,0,0,0,0,0,0,31472,0,13,"+5 to Light Radius" },
84,"of Life",23,17,27,0,'mh00',5,5,0,0,0,0,0,0,0,0,0,0,13317,0,9,"+5 to Life" },
85,"of the Jackal",3,2,27,1,'mh00',1,5,0,0,0,0,0,0,0,0,0,0,16245,0,9,"+1-5 to Life" },
86,"of the Fox",6,4,27,1,'mh00',5,10,0,0,0,0,0,0,0,0,0,0,8053,0,9,"+5-10 to Life" },
87,"of the Wolf",14,10,27,1,'mh00',11,20,0,0,0,0,0,0,0,0,0,0,8053,0,9,"+11-20 to Life" },
88,"of the Wolf",45,33,27,1,'mh00',11,20,0,0,0,0,0,0,0,0,0,0,130,0,9,"+11-20 to Life" },
89,"of the Tiger",20,15,27,1,'mh00',21,30,0,0,0,0,0,0,0,0,0,0,7941,0,9,"+21-30 to Life" },
90,"of the Mammoth",24,18,27,1,'mh00',31,40,0,0,0,0,0,0,0,0,0,0,6149,1,9,"+31-40 to Life" },
91,"of the Mammoth",60,45,27,1,'mh00',31,40,0,0,0,0,0,0,0,0,0,0,1538,1,9,"+31-40 to Life" },
92,"of the Colosuss",30,22,27,1,'mh00',41,60,0,0,0,0,0,0,0,0,0,0,13317,1,9,"+41-60 to Life" },
93,"of the Leech",6,4,28,1,'mh03',4,7,0,0,0,0,0,0,0,0,0,0,6386,0,9,"+4-7% Life Stolen" },
94,"of the Locust",20,15,28,1,'mh03',8,10,0,0,0,0,0,0,0,0,0,0,114,1,9,"+8-10% Life Stolen" },
95,"of the Bat",6,4,29,1,'mm03',4,8,0,0,0,0,0,0,0,0,0,0,6386,0,6,"+4-8% Mana Stolen" },
96,"of the Vampire",20,15,29,1,'mm03',9,12,0,0,0,0,0,0,0,0,0,0,114,1,6,"+8-10% Mana Stolen" },
97,"of Defiance",25,18,30,0,'pd00',75,75,0,0,0,0,0,0,0,0,0,0,4101,1,8,"75% Poison Length Reduction" },
98,"of Amelioration",18,13,30,0,'pd00',50,50,0,0,0,0,0,0,0,0,0,0,4101,0,8,"50% Poison Length Reduction" },
99,"of Remedy",7,5,30,0,'pd00',25,25,0,0,0,0,0,0,0,0,0,0,7941,0,8,"25% Poison Length Reduction" },

```



```

#include "JamellaD2E.h"

struct _MagicPreSuffixTree MagicPreSuffixTree[] =
{
    1, "+ Attack Rating", -1 },
    2, "Bronze (10-20)", 26 },
    2, "Iron (21-40)", 27 },
    2, "Steel (41-60)", 28 },
    2, "Silver (61-80)", 29 },
    2, "Silver (61-80)", 30 },
    2, "Gold (81-100)", 31 },
    2, "Platinum (101-120)", 32 },
    2, "Meteoric (121-150)", 33 },
    1, "+ Damage", -1 },
    2, "Jagged (110-120%)", 12 },
    2, "Deadly (121-130%)", 13 },
    2, "Vicious (131-140%)", 14 },
    2, "Brutal (141-150%)", 15 },
    2, "Massive (151-165%)", 16 },
    2, "Savage (166-180%)", 17 },
    2, "Merciless (181-200%)", 18 },
    1, "+ Attack Rating & + Damage", -1 },
    2, "Sharp (10-20 & 110-120%)", 34 },
    2, "Fine (21-40 & 121-130%)", 35 },
    2, "Warrior's (41-60 & 131-140%)", 36 },
    2, "Soldier's (61-80 & 141-150%)", 37 },
    2, "Knight's (81-100 & 151-165%)", 38 },
    2, "Lord's (101-120 & 166-180%)", 39 },
    2, "King's (121-150 & 181-200%)", 40 },
    1, "+ Defense", -1 },
    2, "Sturdy (120-130%)", 1 },
    2, "Strong (131-140%)", 2 },
    2, "Glorious (141-150%)", 3 },
    2, "Blessed (151-160%)", 4 },
    2, "Saintly (161-180%)", 5 },
    2, "Holy (181-200%)", 6 },
    1, "- Magic Damage", -1 },
    2, "Devious (Reduced by 1)", 7 },
    2, "Fortified (Reduced by 2)", 8 },
    1, "+ Mana", -1 },
    2, "Lizard's (+1-5)", 52 },
    2, "Snake's (+5-10)", 54 },
    2, "Serpent's (+11-20)", 55 },
    2, "Serpent's (+11-20)", 56 },
    2, "Drake's (+21-30)", 57 },
    2, "Dragon's (+31-40)", 58 },
    2, "Dragon's (+31-40)", 59 },
    2, "Wyrn's (+41-60)", 60 },
    1, "+ Light Radius", -1 },
    2, "Glimmering (+1)", 48 },
    2, "Glowing (+2)", 49 },
    1, "+ Fire Resist", -1 },
    2, "Crimson (5-10%)", 74 },
    2, "Burgundy (11-20%)", 75 },
    2, "Burgundy (11-20%)", 76 },
    2, "Garnet (21-30%)", 77 },
    2, "Garnet (21-30%)", 78 },
    2, "Ruby (31-50%)", 80 },
    1, "+ Cold Resist", -1 },
    2, "Azure (5-10%)", 65 },
    2, "Lapis (11-20%)", 66 },
    2, "Lapis (11-20%)", 67 },
    2, "Cobalt (21-30%)", 68 },
    2, "Cobalt (21-30%)", 69 },
    2, "Sapphire (31-50%)", 71 },
    1, "+ Lightning Resist", -1 },
    2, "Ocher (5-10%)", 83 },
    2, "Tangerine (11-20%)", 84 },
    2, "Tangerine (11-20%)", 85 },
    2, "Coral (21-30%)", 86 },
    2, "Coral (21-30%)", 87 },
    2, "Amber (31-50%)", 89 },
    1, "+ Poison Resist", -1 },
    2, "Beryl (5-10%)", 92 },
    2, "Jade (11-20%)", 93 },
    2, "Jade (11-20%)", 94 },
    2, "Viridian (21-30%)", 95 },
    2, "Viridian (21-30%)", 96 },

```

```

2,"Emerald (31-50%)",98 },
1,"+ Resist All",-1 },
2,"Prismatic (15-25%)",63 },
2,"Prismatic (15%)",64 },
1,"+ Skill Levels",-1 },
2,"Fletcher's (+1 to Amazon Skill Levels)",100 },
2,"Archer's (+2 to Amazon Skill Levels)",101 },
2,"Archer's (+2 to Amazon Skill Levels)",102 },
2,"Slayer's (+1 to Barbarian Skill Levels)",112 },
2,"Berserker's (+2 to Barbarian Skill Levels)",113 },
2,"Berserker's (+2 to Barbarian Skill Levels)",114 },
2,"Monk's (+1 to Paladin Skill Levels)",103 },
2,"Priest's (+2 to Paladin Skill Levels)",104 },
2,"Priest's (+2 to Paladin Skill Levels)",105 },
2,"Summoner's (+1 to Necromancer Skill Levels)",106 },
2,"Necromancer's (+2 to Necromancer Skill Levels)",107 },
2,"Necromancer's (+2 to Necromancer Skill Levels)",108 },
2,"Angel's (+1 to Sorceress Skill Levels)",109 },
2,"Arch-Angel's (+2 to Sorceress Skill Levels)",110 },
2,"Arch-Angel's (+2 to Sorceress Skill Levels)",111 },
1,"Damage Generates Mana",-1 },
2,"Vulpine (10%)",19 },
1,"Each Kill Regenerates Mana",-1 },
2,"Triumphant (+1 per Kill)",117 },
1,"Better Chance of Getting Magic Items",-1 },
2,"Fortuitous (10-15%)",42 },
1,"+ Max Stamina",-1 },
2,"Rugged (+5-10)",25 },
1,"+ Stamina Regeneration",-1 },
2,"Tireless",24 },
1,"Make Monsters Flee",-1 },
2,"Howling",41 },

```

```

1,"+ Strength",-1 },
2,"of Strength (+1-3)",360 },
2,"of Might (+4-6)",361 },
2,"of the Ox (+7-10)",362 },
2,"of the Ox (+7-10)",363 },
2,"of the Giant (+11-15)",364 },
2,"of the Giant (+11-15)",365 },
2,"of the Titan (+16-20)",366 },
1,"+ Dexterity",-1 },
2,"of Dexterity (+1-3)",308 },
2,"of Dexterity (+1-3)",309 },
2,"of Skill (+4-6)",310 },
2,"of Skill (+4-6)",311 },
2,"of Accuracy (+7-10)",312 },
2,"of Precision (+11-15)",313 },
2,"of Precision (+11-15)",314 },
2,"of Perfection (+16-20)",315 },
1,"+ Energy",-1 },
2,"of Energy (+1-5)",330 },
2,"of Energy (+1-5)",331 },
2,"of Mind (+6-10)",332 },
2,"of Brilliance (+11-15)",333 },
2,"of Sorcery (+16-20)",334 },
2,"of Wizardy (+21-30)",335 },
1,"+ Life",-1 },
2,"of Life (+5)",340 },
2,"of the Jackal (+1-5)",341 },
2,"of the Fox (+5-10)",342 },
2,"of the Wolf (+11-20)",343 },
2,"of the Wolf (+11-20)",344 },
2,"of the Tiger (+21-30)",345 },
2,"of the Mammoth (+31-40)",346 },
2,"of the Mammoth (+31-40)",347 },
2,"of the Colosuss (+41-60)",348 },
1,"+ Light Radius",-1 },
2,"of Light (+1)",337 },
2,"of Radiance (+3)",338 },
2,"of the Sun (+5)",339 },
1,"+ Minimum Damage",-1 },
2,"of Worth (+1)",299 },
2,"of Measure (+2)",300 },
2,"of Measure (+2)",303 },
2,"of Excellence (+3)",301 },
2,"of Performance (+4-5)",302 },
1,"+ Maximum Damage",-1 },
2,"of Craftsmanship (+1-2)",291 },

```

```

2,"of Quality (+2)",292 },
2,"of Maiming (+3-4)",293 },
2,"of Maiming (+3-4)",298 },
2,"of Slaying (+5-7)",294 },
2,"of Gore (+8-10)",295 },
2,"of Carnage (+11-15)",296 },
2,"of Slaughter (+15-20)",297 },
1,"+ Fire Damage",-1 },
2,"of Flame (2-6)",283 },
2,"of Flame (2-6)",286 },
2,"of Fire (6-11)",284 },
2,"of Burning (10-20)",285 },
1,"+ Cold Damage",-1 },
2,"of Frost (1-4)",279 },
2,"of Frost (1-4)",281 },
2,"of the Glacier (4-12)",280 },
1,"+ Lightning Damage",-1 },
2,"of Shock (1-8)",287 },
2,"of Shock (1-8)",290 },
2,"of Lightning (1-16)",288 },
2,"of Thunder (1-32)",289 },
1,"+ Poison Damage",-1 },
2,"of Blight (2-7)",304 },
2,"of Blight (2-7)",307 },
2,"of Venom (4-14)",305 },
2,"of Pestilence (12-28)",306 },
1,"Poison Length Reduction",-1 },
2,"of Remedy (25%)",355 },
2,"of Amelioration (50%)",354 },
2,"of Defiance (75%)",353 },
1,"+ Life Stolen",-1 },
2,"of the Leech (4-7%)",349 },
2,"of the Locust (8-10%)",350 },
1,"+ Mana Stolen",-1 },
2,"of the Bat (4-8%)",351 },
2,"of the Vampire (8-10%)",352 },
1,"+ Life Regeneration",-1 },
2,"of Regeneration (+3)",319 },
2,"of Regeneration (+3)",320 },
2,"of Regeneration (+3)",321 },
2,"of Regrowth (+5)",322 },
2,"of Regrowth (+5)",323 },
1,"+ Weapon Speeds",-1 },
2,"of Readiness (Slight Increase)",271 },
2,"of Alacrity (Increase)",272 },
2,"of Swiftiness (Increase)",273 },
2,"of Quickness (Greater Increase)",274 },
1,"+ Chance to Block",-1 },
2,"of Blocking (+10%)",275 },
2,"of Deflecting (+20%)",276 },
1,"Faster Hit Recovery",-1 },
2,"of Balance (Fast)",316 },
2,"of Stability (Fastest)",317 },
1,"Damage Reduction",-1 },
2,"of Health (by 1)",256 },
2,"of Protection (by 2)",257 },
2,"of Absorption (by 3)",258 },
2,"of Life (by 4)",259 },
2,"of Life (by 4)",260 },
1,"Magic Damage Reduction",-1 },
2,"of Warding (by 1)",261 },
2,"of the Sentinel (by 2)",263 },
2,"of Guarding (by 3)",262 },
2,"of Negation (by 4)",264 },
1,"More Gold",-1 },
2,"of Greed (40-60%)",326 },
2,"of Wealth (80-120%)",327 },
1,"Better Chance of Getting Magic Item",-1 },
2,"of Chance (10-19%)",328 },
2,"of Fortune (20-35%)",329 },
1,"Monster Defense",-1 },
2,"of Puncturing (-10-20)",268 },
2,"of Bashing (-25-40)",267 },
1,"Cast Time",-1 },
2,"of the Apprentice (Fast)",277 },
2,"of the Magus (Fastest)",278 },
1,"Attacker Takes Damage",-1 },
2,"of Thorns (1-6)",269 },
2,"of Spikes (2-6)",270 },

```

```
{ 1, "- Item Requirements", -1 },
{ 2, "of Ease (-20%)", 358 },
{ 2, "of Simplicity (-40%)", 357 },
{ 1, "Faster Walking/Running", -1 },
{ 2, "of Pacing (Fast)", 367 },
{ 2, "of Haste (Faster)", 368 },
{ 2, "of Speed (Fastest)", 369 },
{ 1, "Monster Knockback", -1 },
{ 2, "of the Bear", 336 },
{ 1, "Attack Ignores Target's Defense", -1 },
{ 2, "of Piercing", 266 },
{ 1, "Prevent Moster Healing", -1 },
{ 2, "of Vileness", 324 },
{ 1, "Freeze Length Reduction", -1 },
{ 2, "of Warmth/Thawing", 282 },
};

//int nMagicPrefixTree = sizeof MagicPrefixTree / sizeof MagicPrefixTree[0];
//int nMagicSuffixTree = sizeof MagicSuffixTree / sizeof MagicSuffixTree[0];
int nMagicPreSuffixTree = sizeof MagicPreSuffixTree / sizeof MagicPreSuffixTree[0];
```

```

// MainDlg.cpp from D2E

#include "JamellaD2E.h"

HWND    hMainDialog = 0;
RECT    rMainDialog;

// Tab Control
HWND    hTab;
RECT    rTab,rTabDialog;
int     TabSelection = 0;
HWND    hTabDialog;

// Procedure Prototypes
LRESULT CALLBACK MainDialogProc(HWND hWnd,UINT uMsg,WPARAM wParam,LPARAM lParam);
LRESULT CALLBACK TabDialogProc(HWND hWnd,UINT uMsg,WPARAM wParam,LPARAM lParam);

struct maindlgtab Tabs[] =
{
    { IDD_TAB1,      IDB_TAB1, "Stats",      &Tab1DialogProc },
    { IDD_TAB2,      IDB_TAB2, "Inventory",  &Tab2DialogProc },
/*
#if INVGRIDS == 0
    { IDD_TAB2,      IDB_TAB2, "Inventory",  &Tab2DialogProc },
#else
    { IDD_TAB2ExGrid, IDB_TAB2, "Inventory", &Tab2DialogProc },
#endif
*/
    { IDD_TAB3,      IDB_TAB3, "Skills",    &Tab3DialogProc },
    { IDD_TAB4,      IDB_TAB4, "Quests",    &Tab4DialogProc },
    { IDD_TAB5,      IDB_TAB5, "Waypoints",  &Tab5DialogProc },
};

struct maindlgtab JamellaTab =
    { IDD_TAB0, 0, "Jamella", &Tab0DialogProc };

const int Tabsn = sizeof Tabs / sizeof Tabs[0];

void ResizeDialog()
{
    // Calculate Tab Control Size
    GetWindowRect(hTabDialog,&rTab);

    TabCtrl_AdjustRect(hTab,TRUE,&rTab);
    rTab.right -= rTab.left;
    rTab.bottom -= rTab.top;
    rTab.top = 0;
    rTab.left = 0;

    SetWindowPos(hTab,NULL,
        0,0,
        rTab.right,rTab.bottom,
        SWP_NOZORDER);

    // Adjust for Dialog Size
    CopyRect(&rTabDialog,&rTab);
    TabCtrl_AdjustRect(hTab,FALSE,&rTabDialog);

    // Center and resize Main Dialog Box
    {
        RECT WorkArea;
        SystemParametersInfo(SPI_GETWORKAREA ,0,&WorkArea,0);

        int width = rTab.right + 2 * GetSystemMetrics(SM_CXDLGFRAME);
        int height = rTab.bottom + 2 * GetSystemMetrics(SM_CXDLGFRAME)
            + GetSystemMetrics(SM_CYMENU)
            + GetSystemMetrics(SM_CYCAPTION);

        int top = (WorkArea.bottom - WorkArea.top - height) / 2;
        int left = (WorkArea.right - WorkArea.left - width) / 2;

        SetWindowPos(hMainDialog,NULL,
            left,top,
            width,height,
            SWP_NOZORDER);
    }
}

```

```

void switchtab(int i)
{
    if (i < 0 && TabSelection >= 0) {
        if (hTabDialog) {
            DestroyWindow(hTabDialog);
        }

        // Show Jamella
        TabCtrl_SetCurSel(hTab,-1);
        TabSelection = -1;

        hTabDialog = CreateDialogIndirect(
            hInstance,
            JamellaTab.dialogtemplate,
            hTab,
            (DLGPROC)JamellaTab.proc);

        SetWindowPos(hTabDialog,HWND_TOP,
            rTabDialog.left,rTabDialog.top,0,0,
            SWP_NOSIZE);

        ResizeDialog();

        ShowWindow(hTabDialog,SW_SHOW);
    }
    else {
        TabCtrl_SetCurSel(hTab,i);
        TabSelection = i;
    }
}

bool validatetab()
{
    if (hTabDialog)
        if (!SendMessage(hTabDialog,WM_VALIDATE,0,0))
            {
                return true;
            }
    return false;
}

int MainDialog(const char *CmdLine)
{
    // First register a Window Class
    WNDCLASSEX wcx;
    wcx.cbSize = sizeof(wcx);
    wcx.style = CS_HREDRAW | CS_VREDRAW;
    wcx.lpfnWndProc = MainDialogProc;
    wcx.cbClsExtra = 0;
    wcx.cbWndExtra = 0;
    wcx.hInstance = hInstance;
    wcx.hIcon = LoadIcon(hInstance,MAKEINTRESOURCE(IDI_ICON));
    wcx.hCursor = LoadCursor(NULL, IDC_ARROW);
    wcx.hbrBackground = (HBRUSH)(COLOR_APPWORKSPACE + 1);
    wcx.lpszMenuName = NULL;
    wcx.lpszClassName = "D2EMainDialog";
    wcx.hIconSm = wcx.hIcon;
    RegisterClassEx(&wcx);

    HMENU hMainMenu = LoadMenu(NULL,MAKEINTRESOURCE(IDR_MAINDIALOG));

    // Secondly create the Main Dialog Box
    hMainDialog = CreateWindowEx(
        0,
        "D2EMainDialog",PROGRAMNAME,
        WS_CAPTION | WS_SYSMENU | WS_CLIPCHILDREN | WS_MINIMIZEBOX,
        CW_USEDEFAULT,
        CW_USEDEFAULT,
        500,
        500,
        (HWND) NULL,
        hMainMenu,
        hInstance,
        (LPVOID) NULL);

    if (!hMainDialog) return ErrorMessage();

    // Setup Tab Control

```

```

HIMAGELIST himl = ImageList_Create(17,16,ILC_COLORDB,TabSn,0);
for(int i=0;i<TabSn;i++)
{
    HBITMAP hBmp = LoadBitmap(hInstance,MAKEINTRESOURCE(Tabs[i].idicon));
    Tabs[i].imagelistindex = ImageList_Add(himl,hBmp,NULL);
    DeleteObject(hBmp);
}

GetClientRect(hMainDialog,&rMainDialog);

// Create Tab Control
hTab = CreateWindow(WC_TABCONTROL,"",
    WS_CHILD | WS_CLIPSIBLINGS | WS_VISIBLE | TCS_HOTTRACK,
    rMainDialog.left,rMainDialog.top,
    rMainDialog.right - rMainDialog.left,rMainDialog.bottom - rMainDialog.top,
    hMainDialog,NULL,hInstance,NULL);

if (!hTab) {
    ErrorMessage();
    DestroyWindow(hMainDialog);
    return false;
}

TabCtrl_SetImageList(hTab,himl);

// Set nice font
HFONT fTab = CreateFont(8,0,
    0,0,0,
    FALSE,FALSE,FALSE,
    DEFAULT_CHARSET,OUT_DEFAULT_PRECIS,CLIP_CHARACTER_PRECIS,
    DEFAULT_QUALITY,DEFAULT_PITCH,
    "MS Sans Serif");

PostMessage(hTab,WM_SETFONT,(WPARAM) fTab,TRUE);

// Load Tab Dialogs
for(int j=0;j<TabSn;j++)
{
    TC_ITEM tie;
    tie.mask = TCIF_TEXT | (Tabs[j].idicon ? TCIF_IMAGE : NULL);
    tie.iImage = Tabs[j].imagelistindex;
    tie.pszText = Tabs[j].text;
    TabCtrl_InsertItem(hTab,j,&tie);

    HRSRC hrsrc = FindResource(NULL,MAKEINTRESOURCE(Tabs[j].iddialog),RT_DIALOG);
    HGLOBAL hglb = LoadResource(hInstance,hrsrc);
    Tabs[j].dialogtemplate = (DLGTEMPLATE *) LockResource(hglb);
}

// Load Jamella Dialog
{
    HRSRC hrsrc = FindResource(NULL,MAKEINTRESOURCE(JamellaTab.iddialog),RT_DIALOG);
    HGLOBAL hglb = LoadResource(hInstance,hrsrc);
    JamellaTab.dialogtemplate = (DLGTEMPLATE *) LockResource(hglb);
}

// Load Progress Dialog
{
    HRSRC hrsrc = FindResource(NULL,MAKEINTRESOURCE(IDD_PROGRESS),RT_DIALOG);
    HGLOBAL hglb = LoadResource(hInstance,hrsrc);
    DLGTEMPLATE* dlgtemp = (DLGTEMPLATE *) LockResource(hglb);

    hTabDialog = CreateDialogIndirect(
        hInstance,
        dlgtemp,
        hTab,
        (DLGPROC)TabDialogProc);
}

TabCtrl_SetCurSel(hTab,-1);
TabSelection = -1;

// Calculate Tab Control Size
GetWindowRect(hTabDialog,&rTab);

TabCtrl_AdjustRect(hTab,TRUE,&rTab);
rTab.right -= rTab.left;
rTab.bottom -= rTab.top;
rTab.top = 0;

```



```

rTab.left = 0;

SetWindowPos(hTab,NULL,
    0,0,
    rTab.right,rTab.bottom,
    SWP_NOZORDER);

// Adjust for Dialog Size
CopyRect(&rTabDialog,&rTab);
TabCtrl_AdjustRect(hTab,FALSE,&rTabDialog);

SetWindowPos(hTabDialog,HWND_TOP,
    rTabDialog.left,rTabDialog.top,0,0,
    SWP_NOSIZE);

ResizeDialog();

// Set initial states of main controls
SendDlgItemMessage(hTabDialog, IDC_PROGRESS_Bar, PBM_SETBARCOLOR, 0, PROGRESSCOLOR);
EnableWindow(hTab, FALSE);
for(int z=0; z < GetMenuItemCount(hMainMenu); z++) {
    EnableMenuItem(hMainMenu, z, MF_BYPOSITION | MF_GRAYED);
}

// Show Progress Dialog and Load Resources
ShowWindow(hMainDialog, SW_SHOW);
ShowWindow(hTabDialog, SW_SHOW);

D2ELoadResources();

CheckShellRegistry();

// Load initial file
if (CmdLineFile())
    fc.loadfile(hTabDialog, CmdLineFile());

SetInvGridPreset(1);

// Set working states of main controls
EnableWindow(hTab, TRUE);
for(z=0; z < GetMenuItemCount(hMainMenu); z++) {
    EnableMenuItem(hMainMenu, z, MF_BYPOSITION | MF_ENABLED);
}

// Switch to Jamella's Dialog
TabSelection = 0;
switchtab(-1);

// Load Accelerators
HACCEL accel = LoadAccelerators(hInstance, MAKEINTRESOURCE(IDR_MAIN));

// Start the message loop
MSG msg;
while (GetMessage(&msg, (HWND) NULL, 0, 0))
{
    if (!TranslateAccelerator(hMainDialog, accel, &msg)) {
        TranslateMessage(&msg);
    }
    DispatchMessage(&msg);
}

D2EUnLoadResources();

// Free Main Dialog Resources
DeleteObject(fTab);
ImageList_Destroy(himl);
DestroyMenu(hMainMenu);

return msg.wParam;
}

char QueryFilename[260];
int QueryOpenFileName(HWND hWnd)
{
    // Retrieve Registry Key from Diablo 2
    char fdir[260];
    {
        HKEY regkey;
        if (RegOpenKeyEx(HKEY_CURRENT_USER, "Software\\Blizzard Entertainment\\Diablo II", 0, KEY_READ, &regkey) == ERROR_SU

```

```

ACCESS)
{
    DWORD type = REG_SZ;
    DWORD fdirsize = 260;
    DWORD x = RegQueryValueEx(regkey,"Save Path",0,&type,(unsigned char*)fdir,&fdirsize);
    if (x != ERROR_SUCCESS)
    {
        memset(fdir,0,sizeof fdir);
    }
    RegCloseKey(regkey);
}
}

// common dialog box structure
OPENFILENAME ofn;

{
    // Initialize OPENFILENAME
    ZeroMemory(&ofn,sizeof(OPENFILENAME));
    ofn.lStructSize = sizeof(OPENFILENAME);
    ofn.hwndOwner = hWnd;
    ofn.lpstrFilter = "D2 Save Game (*.d2s)\0*.d2s\0";
    ofn.nFilterIndex = 0;
    ofn.lpstrFile = QueryFilename;
    ofn.nMaxFile = sizeof(QueryFilename);
    ofn.lpstrFileTitle = NULL;
    ofn.nMaxFileTitle = 0;

    if (fdir[0]) ofn.lpstrInitialDir = fdir;

    ofn.Flags = OFN_PATHMUSTEXIST | OFN_FILEMUSTEXIST | OFN_NOREADONLYRETURN | OFN_HIDEREADONLY;

    ZeroMemory(&QueryFilename,sizeof(QueryFilename));
}

// Display the Open Dialog Box
return GetOpenFileName(&ofn);
}

LRESULT CALLBACK MainDialogProc(HWND hWnd,UINT uMsg,WPARAM wParam,LPARAM lParam)
{
    switch(uMsg)
    {
    case WM_CREATE:
        return true;

    case WM_COMMAND:
        switch (LOWORD(wParam))
        {
        case IDR_OPEN:
            if (!validatetab())
            {
                if (fc.isloaded())
                {
                    if (!RegOptions.NoAnnoyingMsgs) {
                        int user = MessageBox(hWnd,"Do you really want to discard all changes?",PROGRAMNAME,
                            MB_YESNO | MB_ICONQUESTION | MB_APPLMODAL);

                        if (user != IDYES) break;
                    }

                    fc.discardfile(hWnd);
                    switchtab(-1);
                }
                if (QueryOpenFileName(hWnd))
                {
                    fc.loadfile(hWnd,QueryFilename);
                }
            }
            return true;
        case IDR_NEW:
            if (!validatetab())
            {
                if (fc.isloaded())
                {
                    if (!RegOptions.NoAnnoyingMsgs) {
                        int user = MessageBox(hWnd,"Do you really want to discard all changes?",PROGRAMNAME,
                            MB_YESNO | MB_ICONQUESTION | MB_APPLMODAL);
                    }
                }
            }
        }
    }
}

```

```

        if (user != IDYES) break;
    }

    fc.discardfile(hWnd);
    switchtab(-1);
}

DialogBox(hInstance,MAKEINTRESOURCE(IDD_NEW),hWnd,(DLGPROC) NewDialogProc);
}
return true;
case IDR_SAVE:
if (!validatetab())
{
    if (fc.isloaded())
    {
        SendMessage(hTabDialog,WM_DESTROY,0,0);
        fc.savefile(hWnd);
    }
    else
    {
        MessageBox(hWnd,"You didn't open a file!",PROGRAMNAME,
            MB_OK| MB_ICONEXCLAMATION | MB_APPLMODAL);
    }
}
return true;
case IDR_RELOAD:
{
    if (fc.isloaded())
    {
        if (!RegOptions.NoAnnoyingMsgs) {
            int user = MessageBox(hWnd,"Do you really want to discard all changes?",PROGRAMNAME,
                MB_YESNO | MB_ICONQUESTION | MB_APPLMODAL);

            if (user != IDYES) break;
        }

        switchtab(-1);

        fc.reloadfile(hWnd);
    }
    else
    {
        MessageBox(hWnd,"You didn't open a file!",PROGRAMNAME,
            MB_OK| MB_ICONEXCLAMATION | MB_APPLMODAL);
    }
}
return true;
case IDR_CLOSE:
{
    if (fc.isloaded())
    {
        if (!RegOptions.NoAnnoyingMsgs) {
            int user = MessageBox(hWnd,"Do you really want to discard all changes?",PROGRAMNAME,
                MB_YESNO | MB_ICONQUESTION | MB_APPLMODAL);

            if (user != IDYES) break;
        }

        fc.discardfile(hWnd);
        switchtab(-1);
    }
    else
    {
        MessageBox(hWnd,"You didn't open a file!",PROGRAMNAME,
            MB_OK| MB_ICONEXCLAMATION | MB_APPLMODAL);
    }
}
return true;
case IDR_UOPTIONS:
DialogBox(hInstance,MAKEINTRESOURCE(IDD_UOPTIONS),hWnd,(DLGPROC) UOptionsDialogProc);
return true;
case IDR_EOPTIONS:
DialogBox(hInstance,MAKEINTRESOURCE(IDD_EOPTIONS),hWnd,(DLGPROC) EOptionsDialogProc);
return true;
case IDR_TEXTFILE:
WriteTextSummary(hWnd);
return true;
case IDR_INFO:
DialogBox(hInstance,MAKEINTRESOURCE(IDD_INFO),hWnd,(DLGPROC) InfoDialogProc);

```

```

    return true;
case IDCANCEL:
case IDR_EXIT:
    if (fc.isloaded())
    {
        if (RegOptions.NoAnnoyingMsgs || MessageBox(hMainDialog,"Are you sure you want to exit and discard all c
changes?",
            PROGRAMNAME,MB_YESNO) == IDYES)
        {
            PostQuitMessage(0);
            DestroyWindow(hMainDialog);
        }
    }
    else
    {
        PostQuitMessage(0);
        DestroyWindow(hMainDialog);
    }
    return true;
}
break;
case WM_NOTIFY:
{
    NMHDR nmh = *(LPNMHDR)lParam;
    if (nmh.hwndFrom == hTab)
    {
        switch(nmh.code)
        {
        case TCN_SELCHANGING:
            if (!fc.isloaded())
            {
                if (QueryOpenFileName(hWnd))
                {
                    fc.loadfile(hWnd,QueryFilename);
                }
                return true;
            }
            if (hTabDialog)
            if (!SendMessage(hTabDialog,WM_VALIDATE,0,0))
            {
                return true;
            }
            return false;

        case TCN_SELCHANGE:
            {
                // Get Selection
                TabSelection = TabCtrl_GetCurSel(hTab);

                // Destroy the current child dialog box, if any.
                if (hTabDialog != NULL)
                    DestroyWindow(hTabDialog);

                // Create the new child dialog box.
                if (Tabs[TabSelection].dialogtemplate)
                {
                    hTabDialog = CreateDialogIndirect(
                        hInstance,
                        Tabs[TabSelection].dialogtemplate,
                        hTab,
                        (DLGPROC) (Tabs[TabSelection].proc ? Tabs[TabSelection].proc : TabDialogProc));

                    SetWindowPos(hTabDialog,HWND_TOP,
                        rTabDialog.left,rTabDialog.top,0,0,
                        SWP_NOSIZE);

                    ResizeDialog();
                    ShowWindow(hTabDialog,SW_SHOW);
                }
                return true;
            }
        }
    }
}
break;
case WM_CLOSE:
    if (fc.isloaded())
    {
        if (RegOptions.NoAnnoyingMsgs || MessageBox(hMainDialog,"Are you sure you want to exit and discard all chang

```

```

es?",
        PROGRAMNAME,MB_YESNO) == IDYES)
    {
        PostQuitMessage(0);
        DestroyWindow(hMainDialog);
    }
else
{
    PostQuitMessage(0);
    DestroyWindow(hMainDialog);
}
return true;
case WM_DESTROY:
    PostQuitMessage(0);
    return false;
case WM_CHAR:
    PostMessage(hTabDialog,WM_CHAR,wParam,lParam);
    return false;
}
return DefWindowProc(hWnd,uMsg,wParam,lParam);
}

LRESULT CALLBACK TabDialogProc(HWND hWnd,UINT uMsg,WPARAM wParam,LPARAM lParam)
{
    switch(uMsg)
    {
        case WM_INITDIALOG:
            {
                return true;
            }
    }
    return false;
}

```

```

#include "JamellaD2E.h"

const struct Modifier Modifiers[] =
{
  'ar00', "%d Defense" },
  'ar01', "Damage Reduced by %d" },
  'ar02', "%d%% to Defense" },
  'ar03', "Magic Damage Reduced by %d" },
  'ar04', "Ignores Target's Defense" },
  'ar05', "%d to Monster AC per Hit" },
  'ar06', "%d%% Target Defense" },
  'ar08', "%d Defense vs Missile" },
  'ar09', "%d Defense vs Melee" },
  'at00', "Attacker Takes Damage of %d" },
  'at01', "Slight Attack Rate Increase (%d Points)" },
  'at02', "Attack Rate Increase (%d Points)" },
  'at03', "Greatly Attack Rate Increase (%d Points)" },
  'at04', "Attacker Takes Lightning Damage of %d" },
  'bl00', "%d%% Increased Blocking" },
  'bl02', "Faster Block Rate" },
  'ca00', "Fast Cast Rate" },
  'ca01', "Faster Cast Rate" },
  'ca02', "Fastest Cast Rate" },
  'dc00', "%d Cold Damage Min" },
  'dc01', "%d Cold Damage Max" },
  'dc02', "Half Freeze Duration" },
  'dc03', "Cold Duration: %d seconds" },
  'df00', "%d Fire Damage Min" },
  'df01', "%d Fire Damage Max" },
  'dl00', "%d Lightning Damage Min" },
  'dl01', "%d Lightning Damage Max" },
  'dm00', "%d to Maximum Damage" },
  'dm01', "%d to Minimum Damage" },
  'dm02', "%d%% to Damage" },
  'dm03', "%d Damage taken Goes to Mana" },
  'dp00', "%d Poison Damage Min" },
  'dp01', "%d Poison Damage Max" },
  'dp02', "Poison Length %d seconds" },
  'ds00', "%d%% Deadly Strike" },
  'dx00', "%d to Dexterity" },
  'gh00', "Fast Hit Recovery" },
  'gh01', "Faster Hit Recovery" },
  'gh02', "Fastest Hit Recovery" },
  'hl08', "Heal Stamina %d%%" },
  'hl10', "Prevent Monster Heal" },
  'hl11', "Regenerate Mana %d%%" },
  'hl12', "%d to Max Stamina" },
  'hl13', "%d%% Stamina Drain" },
  'ht00', "%d to Attack Rating" },
  'ht01', "%d%% Bonus to Attack Rating" },
  'hw00', "Hit Causes Monster to Flee" },
  'hw01', "Hit blinds target" },
  'ib00', "%d%% Extra Gold From Monsters" },
  'ib01', "%d%% Better Chance of Getting Magic Item" },
  'in00', 0 },
  'ko00', "Knockback" },
  'lf00', "Replenish Life %d" },
  'lt00', "%d to Light Radius" },
  'md01', "%d%% Damage to Undead" },
  'md03', "%d to Attack Rating against Undead" },
  'mh00', "%d to Life" },
  'mh01', "%d%% to Max Life" },
  'mh03', "%d%% Life Stolen Per Hit" },
  'mm00', "%d to Mana" },
  'mm01', "%d%% to Max Mana" },
  'mm03', "%d%% Mana Stolen Per Hit" },
  'pd00', "Poison Length Reduced by %d%%" },
  'ra00', "%d to each Resistance" },
  'ra01', "%d%% To Maximum of each Resistance" },
  'rc00', "Cold Resist %d%%" },
  'rc01', "%d%% To Maximum Cold Resist" },
  'rf00', "Fire Resist %d%%" },
  'rf01', "%d%% To Maximum Fire Resist" },
  'rl00', "Lightning Resist %d%%" },
  'rl01', "%d%% To Maximum Lightning Resist" },
  'rp00', "Poison Resist %d%%" },
  'rp01', "%d%% To Maximum Poison Resist" },
  'rq00', "Requirements %d%%" },
  'sk00', "%d to Amazon Skill Levels" },

```

```
{ 'sk01', "%d to Paladin Skill Levels" },
{ 'sk02', "%d to Necromancer Skill Levels" },
{ 'sk03', "%d to Sorceress Skill Levels" },
{ 'sk04', "%d to Barbarian Skill Levels" },
{ 'sk05', 0 },
{ 'sk07', "%d To Fire Skills" },
{ 'sk08', "%d To All Skills" },
{ 'sp01', "Freezes Target" },
{ 'sp02', "%d%% Chance of Open Wounds" },
{ 'sp03', "%d%% Chance of Crushing Blow" },
{ 'sp04', 0 },
{ 'sp05', "%d Points of Mana After Each Kill" },
{ 'sp06', 0 },
{ 'sp07', "Slows Target By %d%" },
{ 'sp10', "Cannot Be Frozen" },
{ 'sp13', "Piercing Attack" },
{ 'sp14', "Fires Magic Arrows" },
{ 'sp15', "Fires Explosive Arrows" },
{ 'st00', "%d to Strength" },
{ 've00', "Fast Run/Walk" },
{ 've01', "Faster Run/Walk" },
{ 've02', "Fastest Run/Walk" },
};
```

```
int nModifiers = sizeof Modifiers / sizeof Modifiers[0];
```

```
char CodeStringTemp[5];
```

```

// NewBox.cpp from D2E
#include "JamellaD2E.h"

inline bool ValidateName(const char *s)
{
    if (*s == 0) return false;

    while(*s)
    {
        if (!isalpha(*s))
            return false;
        s++;
    }
    return true;
}

inline void MangleNames(char *d, const char *file, const char* nname,const char *oname)
{
    int ol = strlen(oname);

    d += strlen(d);

    while(*file)
    {
        if (oname && *file == *oname && strcmp(file,oname,ol) == 0) {
            strcpy(d,nname);
            d += strlen(nname);
            file += ol;
            oname = 0;
        }
        else {
            *d++ = *file++;
            *d = 0;
        }
    }
}

struct
{
    char    *name;
    char    *rc;
    char    *description;
}
CharTemplates[] =
{
    { "Tyrael", MAKEINTRESOURCE(IDN_SetTyrael), "Fully equipped set: Angelic Raidament" }
};

LRESULT CALLBACK NewDialogProc(HWND hWnd,UINT uMsg,WPARAM wParam,LPARAM lParam)
{
    switch(uMsg)
    {
        case WM_INITDIALOG:
        {
            SendDlgItemMessage(hWnd,IDC_NEW_Class,CB_RESETCONTENT,0,0);
            for (int i=0;i<5;i++)
                SendDlgItemMessage(hWnd,IDC_NEW_Class,CB_ADDSTRING,0,(LPARAM) CharClasses[i]);
            SendDlgItemMessage(hWnd,IDC_NEW_Class,CB_SETCURSEL,0,0);

            //for(int z=0;z
            //IDC_NEW_Templates
        }
        return true;
        case WM_COMMAND:
            switch (LOWORD(wParam))
            {
                case IDC_NEW_CreateNewbie:
                {
                    GetDlgItemText(hWnd,IDC_NEW_Name,buffer,256);
                    if (!ValidateName(buffer))
                    {
                        MessageBox("Invalid Name:\nOnly A-Z & a-z allowed!");
                        return false;
                    }
                }

                int Class = SendDlgItemMessage(hWnd,IDC_NEW_Class,CB_GETCURSEL,0,0);

                const char* rc = (Class == 0) ? MAKEINTRESOURCE(IDN_Amazon) :

```



```

(Class == 1) ? MAKEINTRESOURCE(IDN_Sorceress) :
(Class == 2) ? MAKEINTRESOURCE(IDN_Necromancer) :
(Class == 3) ? MAKEINTRESOURCE(IDN_Paladin) :
(Class == 4) ? MAKEINTRESOURCE(IDN_Barbarian) : 0;

HRSRC rcsrc = FindResource(hInstance,rc,"D2S");
HGLOBAL hglb = LoadResource(hInstance,rcsrc);
int size = SizeofResource(hInstance,rcsrc);
BYTE *mem = (BYTE*)LockResource(hglb);

int erroffset = fc.transferdata(mem,size);

if (erroffset < 0)
{
    fc.loaded = true;

    fc.setfilename(buffer);
    strcpy(fc.Header.playername,buffer);
}
else
{
    char text[80];

    sprintf(text,"Corrupt field encountered in save game data! (@ offset %i)",erroffset);
    MessageBox(hWnd,text,PROGRAMNAME,MB_OK | MB_ICONSTOP | MB_APPLMODAL);
    fc.clear();
}

EndDialog(hWnd,IDOK);
return true;
}
case IDCANCEL:
    EndDialog(hWnd,wParam);
    return true;
}
break;
case WM_CLOSE:
    EndDialog(hWnd,wParam);
    return true;
case WM_DESTROY:
    return false;
}
return false;
}

LRESULT CALLBACK RenameDialogProc(HWND hWnd,UINT uMsg,WPARAM wParam,LPARAM lParam)
{
    switch(uMsg)
    {
    case WM_INITDIALOG:
        {
            SetDlgItemText(hWnd,IDC_RENAME_Name,fc.Header.playername);
            CheckRadioButton(hWnd,IDC_RENAME_Move,IDC_RENAME_Copy,IDC_RENAME_Move);
        }
        return true;
    case WM_COMMAND:
        switch (LOWORD(wParam))
        {
        case IDOK:
            {
                char NewName[32];

                GetDlgItemText(hWnd,IDC_RENAME_Name,NewName,32);
                if (!ValidateName(NewName))
                {
                    ErrorBox("Invalid Name:\nOnly A-Z & a-z allowed!");
                    return false;
                }
            }

            char sdir[260];
            if (GetDiabloSaveDirectory(sdir))
            {
                char srchdir[260];
                sprintf(srchdir,"%s\\%s.*",sdir,NewName);

                WIN32_FIND_DATA FData;
                HANDLE hFind = FindFirstFile(srchdir,&FData);

                if (hFind != INVALID_HANDLE_VALUE)

```

```

        {
            if (MessageBox(hWnd,"A character with the name already exists!\nDo you want to delete him/her?",
PROGRAMNAME,MB_YESNO | MB_ICONEXCLAMATION) != IDYES) {
                FindClose(hFind);
                return false;
            }

            int fLoop = true;
            while(fLoop)
            {
                char dfile[260];

                sprintf(dfile,"%s\\%s",sdir,FData.cFileName);
                DeleteFile(dfile);

                fLoop = FindNextFile(hFind, &FData);
            }

            FindClose(hFind);
        }
    }

if (IsDlgButtonChecked(hWnd,IDC_RENAME_Move) == BST_CHECKED)
{
    char srch[260];
    sprintf(srch,"%s\\%s.*",sdir,fc.Header.playername);

    WIN32_FIND_DATA FData;
    HANDLE hFind = FindFirstFile(srch,&FData);

    if (hFind != INVALID_HANDLE_VALUE)
    {
        int fLoop = true;
        while(fLoop)
        {
            char nfile[260];
            strcpy(nfile,sdir);
            strcat(nfile,"\\");

            MangleNames(nfile,FData.cFileName,NewName,fc.Header.playername);

            if (!MoveFile(FData.cFileName,nfile))
            {
                sprintf(buffer,"Error moving file '%s' to '%s'!\nPress OK to continue.",FData.cFileName,
nfile);

                ErrorBox(buffer);
            }

            fLoop = FindNextFile(hFind, &FData);
        }

        FindClose(hFind);

        fc.setfilename(NewName);
        strcpy(fc.Header.playername,NewName);
    }
    else
    {
        fc.setfilename(NewName);
        strcpy(fc.Header.playername,NewName);
    }

    EndDialog(hWnd,IDOK);
    return true;
}
case IDCANCEL:
    EndDialog(hWnd,wParam);
    return true;
}
break;
case WM_CLOSE:
    EndDialog(hWnd,wParam);
    return true;
case WM_DESTROY:
    return false;
}
return false;
}

```

```

// OptionsBox.cpp from D2E

#include "JamellaD2E.h"

static struct
{
    bool    Expert;
    int     DlgID;
    int     *Value;
}
CheckBoxes[] =
{
    { 0,    IDC_UOPTIONS_Associations,    &RegOptions.Associations },
    { 0,    IDC_UOPTIONS_ExceedQuantity,  &RegOptions.ExceedQuantity },
    { 0,    IDC_UOPTIONS_Tooltips,        &RegOptions.ToolTips },
    { 0,    IDC_UOPTIONS_AnnoyingMsgs,    &RegOptions.NoAnnoyingMsgs },

    { 1,    IDC_UOPTIONS_AllSocktable,    &RegOptions.AllItemsSocketable },
    { 1,    IDC_EOPTIONS_7Gems,           &RegOptions.A7Gems },
};

LRESULT CALLBACK UOptionsDialogProc(HWND hWnd,UINT uMsg,WPARAM wParam,LPARAM lParam)
{
    switch(uMsg)
    {
        case WM_INITDIALOG:
            {
                for(int u = 0;u < sizeof CheckBoxes / sizeof CheckBoxes[0];u++)
                {
                    if (CheckBoxes[u].Expert) continue;

                    CheckDlgButton(hWnd,CheckBoxes[u].DlgID,
                        *CheckBoxes[u].Value ? BST_CHECKED : BST_UNCHECKED);
                }
            }
            return true;
        case WM_COMMAND:
            switch (LOWORD(wParam))
            {
                case IDOK:
                    {
                        for(int u = 0;u < sizeof CheckBoxes / sizeof CheckBoxes[0];u++)
                        {
                            if (CheckBoxes[u].Expert) continue;

                            if (IsDlgButtonChecked(hWnd,CheckBoxes[u].DlgID) == BST_CHECKED)
                                *CheckBoxes[u].Value = true;
                            else
                                *CheckBoxes[u].Value = false;
                        }

                        SaveEditorRegistryValues();
                    }
                    EndDialog(hWnd,IDOK);
                    return true;
                case IDCANCEL:
                    EndDialog(hWnd,IDCANCEL);
                    return true;
            }
            break;
        case WM_CLOSE:
            EndDialog(hWnd,wParam);
            return true;
        case WM_DESTROY:
            return false;
    }
    return false;
}

LRESULT CALLBACK EOptionsDialogProc(HWND hWnd,UINT uMsg,WPARAM wParam,LPARAM lParam)
{
    switch(uMsg)
    {
        case WM_INITDIALOG:
            {
                CheckRadioButton(hWnd, IDC_OPTIONS_IFormat1, IDC_OPTIONS_IFormat3,
                    IDC_OPTIONS_IFormat1 + RegOptions.CreateItemRecordFormat);
            }
    }
}

```

```

        CheckDlgButton(hWnd, IDC_UOPTIONS_AllSocketable,
            RegOptions.AllItemsSocketable ? BST_CHECKED : BST_UNCHECKED);
    }
    return true;
case WM_COMMAND:
    switch (LOWORD(wParam))
    {
    case IDOK:
        {
            if (IsDlgButtonChecked(hWnd, IDC_UOPTIONS_AllSocketable) == BST_CHECKED)
                RegOptions.AllItemsSocketable = true;
            else
                RegOptions.AllItemsSocketable = false;

            RegOptions.CreateItemRecordFormat = 0;
            if (IsDlgButtonChecked(hWnd, IDC_OPTIONS_IFormat2) == BST_CHECKED)
                RegOptions.CreateItemRecordFormat = 1;
            if (IsDlgButtonChecked(hWnd, IDC_OPTIONS_IFormat3) == BST_CHECKED)
                RegOptions.CreateItemRecordFormat = 2;

            SaveEditorRegistryValues();
        }
        EndDialog(hWnd, IDOK);
        return true;
    case IDCANCEL:
        EndDialog(hWnd, IDCANCEL);
        return true;
    }
    break;
case WM_CLOSE:
    EndDialog(hWnd, wParam);
    return true;
case WM_DESTROY:
    return false;
}
return false;
}
}

```

```
#include "JamellaD2E.h"
```

```
const struct _RarePreSuffix RarePrefixTable[] =
```

```
{
    "Beast", 65535 },
    "Eagle", 65535 },
    "Raven", 65535 },
    "Viper", 65535 },
    "Ghoul", 65535 },
    "Skull", 65535 },
    "Blood", 65535 },
    "Dread", 65535 },
    "Doom", 65535 },
    "Grim", 65535 },
    "Bone", 65535 },
    "Death", 65535 },
    "Shadow", 65535 },
    "Storm", 65535 },
    "Rune", 65535 },
    "Plague", 65535 },
    "Stone", 65535 },
    "Wraith", 65535 },
    "Spirit", 15239 },
    "Storm", 16383 },
    "Demon", 16383 },
    "Cruel", 16383 },
    "Empyrian", 896 },
    "Bramble", 16383 },
    "Pain", 16383 },
    "Loath", 16383 },
    "Glyph", 16383 },
    "Imp", 16383 },
    "Fiend", 16383 },
    "Hailstone", 16383 },
    "Gale", 16383 },
    "Dire", 16383 },
    "Soul", 16383 },
    "Brimstone", 16383 },
    "Corpse", 16383 },
    "Carrion", 16383 },
    "Armageddon", 31 },
    "Havoc", 65535 },
    "Bitter", 65535 },
    "Entropy", 49152 },
    "Chaos", 49152 },
    "Order", 0 },
    "Rule", 0 },
    "Warp", 0 },
    "Rift", 0 },
    "Corruption", 49152 },
};
```

```
const struct _RarePreSuffix RareSuffixTable[] =
```

```
{
    "Bite", 24 },
    "Scratch", 72 },
    "Scalpel", 8 },
    "Fang", 72 },
    "Gutter", 72 },
    "Thirst", 1112 },
    "Razor", 8 },
    "Scythe", 24 },
    "Edge", 24 },
    "Saw", 8 },
    "Splitter", 16 },
    "Cleaver", 24 },
    "Sever", 24 },
    "Sunder", 16 },
    "Rend", 16 },
    "Mangler", 16 },
    "Slayer", 16 },
    "Reaver", 16 },
    "Spawn", 16 },
    "Gnash", 16 },
    "Star", 416 },
    "Blow", 416 },
    "Smasher", 416 },
    "Bane", 416 },
};
```

```

"Crusher", 416 },
"Breaker", 416 },
"Grinder", 416 },
"Crack", 416 },
"Mallet", 416 },
"Knell", 416 },
"Lance", 64 },
"Spike", 72 },
"Impaler", 72 },
"Skewer", 72 },
"Prod", 64 },
"Scourge", 64 },
"Wand", 0 },
"Wrack", 64 },
"Barb", 72 },
"Needle", 1096 },
"Dart", 1088 },
"Bolt", 1024 },
"Quarrel", 1024 },
"Fletch", 1024 },
"Flight", 1024 },
"Nock", 1024 },
"Horn", 1026 },
"Stinger", 1096 },
"Quill", 1024 },
"Goad", 576 },
"Branch", 1600 },
"Spire", 512 },
"Song", 1944 },
"Call", 896 },
"Cry", 896 },
"Spell", 896 },
"Chant", 896 },
"Weaver", 896 },
"Gnarl", 896 },
"Visage", 2 },
"Crest", 2 },
"Circlet", 2 },
"Veil", 2 },
"Hood", 2 },
"Mask", 2 },
"Brow", 2 },
"Casque", 2 },
"Visor", 2 },
"Cowl", 2 },
"Hide", 1 },
"Pelt", 1 },
"Carapace", 1 },
"Coat", 1 },
"Wrap", 1 },
"Suit", 1 },
"Cloak", 1 },
"Shroud", 1 },
"Jack", 1 },
"Mantle", 1 },
"Guard", 4 },
"Badge", 4 },
"Rock", 4 },
"Aegis", 4 },
"Ward", 4 },
"Tower", 4 },
"Shield", 4 },
"Wing", 4 },
"Mark", 4 },
"Emblem", 4 },
"Hand", 4096 },
"Fist", 4096 },
"Claw", 4096 },
"Clutches", 4096 },
"Grip", 20480 },
"Grasp", 20480 },
"Hold", 20480 },
"Touch", 20480 },
"Finger", 20480 },
"Knuckle", 20480 },
"Shank", 2048 },
"Spur", 2048 },
"Tread", 2048 },
"Stalker", 2048 },

```

```

{
"Greave", 2048 },
"Blazer", 2048 },
"Nails", 2112 },
"Trample", 2048 },
"Brogues", 2048 },
"Track", 2048 },
"Slippers", 2048 },
"Clasp", 8192 },
"Buckle", 8192 },
"Harness", 8192 },
"Lock", 8192 },
"Fringe", 8192 },
"Winding", 8192 },
"Chain", 8192 },
"Strap", 8192 },
"Lash", 8192 },
"Cord", 8192 },
"Knot", 16384 },
"Circle", 16384 },
"Loop", 16384 },
"Eye", 16384 },
"Turn", 16384 },
"Spiral", 16384 },
"Coil", 16384 },
"Gyre", 16384 },
"Band", 16384 },
"Whorl", 16384 },
"Talisman", 32768 },
"Heart", 32768 },
"Noose", 32768 },
"Necklace", 32768 },
"Collar", 32768 },
"Beads", 32768 },
"Torc", 32768 },
"Gorget", 32768 },
"Scarab", 32768 },
"Wood", 832 },
"Brand", 1016 },
"Bludgeon", 928 },
"Cudgel", 928 },
"Loom", 1024 },
"Harp", 1024 },
"Master", 49152 },
"Bar", 992 },
"Hew", 24 },
"Crook", 512 },
"Mar", 120 },
"Shell", 7 },
"Stake", 64 },
"Picket", 64 },
"Pale", 64 },
"Flange", 161 },
};

```

```

int nRarePrefixTable = sizeof RarePrefixTable / sizeof RarePrefixTable[0];
int nRareSuffixTable = sizeof RareSuffixTable / sizeof RareSuffixTable[0];

```

```

// Registry.cpp

#include "JamellaD2E.h"

static int GetUserConfirmation()
{
    return MessageBox(NULL,"The file types for *.d2s and *.d2i have not been registered in the explorer.\nDo you wish to
do this now?\nThis will make the files have nice icons and double-click open features.",PROGRAMNAME,MB_YESNO | MB_ICONE
XCLAMATION);
}

static bool Confirmation;

static int CheckFileExtention(const char *Extention,const char *ProgID)
{
    char Query[260];
    DWORD Type;
    DWORD Size = sizeof Query;

    // Check Entry
    HKEY Key;
    if (RegOpenKeyEx(HKEY_CLASSES_ROOT,Extention,0,KEY_ALL_ACCESS,&Key) == ERROR_SUCCESS)
    { // Check Key Contents

        if (RegQueryValueEx(Key,NULL,NULL,&Type,(unsigned char*)&Query,&Size) == ERROR_SUCCESS &&
            Type == REG_SZ &&
            strcmp(Query,ProgID) == 0)
        {
        }
        else
        {
            if (!Confirmation) {
                if (GetUserConfirmation() != IDYES) return false;
                else Confirmation = true;
            }

            RegCreateKeyEx(HKEY_CLASSES_ROOT,Extention,0,NULL,REG_OPTION_NON_VOLATILE,KEY_ALL_ACCESS,0,&Key,NULL);
            RegSetValueEx(Key,NULL,0,REG_SZ,(unsigned char*)ProgID,strlen(ProgID));
        }
    } // Check Key Contents
    else
    { // Add new entry

        if (!Confirmation) {
            if (GetUserConfirmation() != IDYES) return false;
            else Confirmation = true;
        }

        RegCreateKeyEx(HKEY_CLASSES_ROOT,Extention,0,NULL,REG_OPTION_NON_VOLATILE,KEY_ALL_ACCESS,0,&Key,NULL);
        RegSetValueEx(Key,NULL,0,REG_SZ,(unsigned char*)ProgID,strlen(ProgID));

    } // Add new entry
    RegCloseKey(Key);
    return true;
}

static int CheckDescription(const char *ProgID,const char *Description)
{
    char Query[260];
    DWORD Type;
    DWORD Size = sizeof Query;

    // Check Entry
    HKEY Key;
    if (RegOpenKeyEx(HKEY_CLASSES_ROOT,ProgID,0,KEY_ALL_ACCESS,&Key) == ERROR_SUCCESS)
    { // Check Key Contents

        if (RegQueryValueEx(Key,NULL,NULL,&Type,(unsigned char*)&Query,&Size) == ERROR_SUCCESS &&
            Type == REG_SZ &&
            strcmp(Query,Description) == 0)
        {
        }
        else
        {
            if (!Confirmation) {
                if (GetUserConfirmation() != IDYES) return false;
                else Confirmation = true;
            }
        }
    }
}

```



```

        RegCreateKeyEx(HKEY_CLASSES_ROOT,ProgID,0,NULL,REG_OPTION_NON_VOLATILE,KEY_ALL_ACCESS,0,&Key,NULL);
        RegSetValueEx(Key,NULL,0,REG_SZ,(unsigned char*)Description,strlen(Description));
    }
} // Check Key Contents
else
{ // Add new entry

    if (!Confirmation) {
        if (GetUserConfirmation() != IDYES) return false;
        else Confirmation = true;
    }

    RegCreateKeyEx(HKEY_CLASSES_ROOT,ProgID,0,NULL,REG_OPTION_NON_VOLATILE,KEY_ALL_ACCESS,0,&Key,NULL);
    RegSetValueEx(Key,NULL,0,REG_SZ,(unsigned char*)Description,strlen(Description));

} // Add new entry
RegCloseKey(Key);
return true;
}

static int CheckIcon(const char *ProgID,const char *IconPath,const int IconNum)
{
    char Query[260];
    DWORD Type;
    DWORD Size = sizeof Query;

    char KeyPath[260];
    sprintf(KeyPath,"%s\\DefaultIcon",ProgID);

    char FilePath[260];
    sprintf(FilePath,"%s,%i",IconPath,IconNum);

    // Check Entry
    HKEY Key;
    if (RegOpenKeyEx(HKEY_CLASSES_ROOT,KeyPath,0,KEY_ALL_ACCESS,&Key) == ERROR_SUCCESS)
    { // Check Key Contents

        if (RegQueryValueEx(Key,NULL,NULL,&Type,(unsigned char*)&Query,&Size) == ERROR_SUCCESS &&
            Type == REG_SZ &&
            strcmp(Query,FilePath) == 0)
        {
        }
        else
        {
            if (!Confirmation) {
                if (GetUserConfirmation() != IDYES) return false;
                else Confirmation = true;
            }

            RegCreateKeyEx(HKEY_CLASSES_ROOT,KeyPath,0,NULL,REG_OPTION_NON_VOLATILE,KEY_ALL_ACCESS,0,&Key,NULL);
            RegSetValueEx(Key,NULL,0,REG_SZ,(unsigned char*)FilePath,strlen(FilePath));
        }
    } // Check Key Contents
    else
    { // Add new entry

        if (!Confirmation) {
            if (GetUserConfirmation() != IDYES) return false;
            else Confirmation = true;
        }

        RegCreateKeyEx(HKEY_CLASSES_ROOT,KeyPath,0,NULL,REG_OPTION_NON_VOLATILE,KEY_ALL_ACCESS,0,&Key,NULL);
        RegSetValueEx(Key,NULL,0,REG_SZ,(unsigned char*)FilePath,strlen(FilePath));

    } // Add new entry
    RegCloseKey(Key);
    return true;
}

static int CheckShellVerb(const char *ProgID,const char *Verb,const char *Command)
{
    char Query[260];
    DWORD Type;
    DWORD Size = sizeof Query;

    char KeyPath[260];

```

```

sprintf(KeyPath, "%s\\shell\\%s\\command", ProgID, Verb);

// Check Entry
HKEY Key;
if (RegOpenKeyEx(HKEY_CLASSES_ROOT, KeyPath, 0, KEY_ALL_ACCESS, &Key) == ERROR_SUCCESS)
{ // Check Key Contents

    if (RegQueryValueEx(Key, NULL, NULL, &Type, (unsigned char*)&Query, &Size) == ERROR_SUCCESS &&
        Type == REG_SZ &&
        strcmp(Query, Command) == 0)
    {
    }
    else
    {
        if (!Confirmation) {
            if (GetUserConfirmation() != IDYES) return false;
            else Confirmation = true;
        }

        sprintf(KeyPath, "%s\\shell", ProgID);
        RegCreateKeyEx(HKEY_CLASSES_ROOT, KeyPath, 0, NULL, REG_OPTION_NON_VOLATILE, KEY_ALL_ACCESS, 0, &Key, NULL);
        RegCloseKey(Key);

        sprintf(KeyPath, "%s\\shell\\%s", ProgID, Verb);
        RegCreateKeyEx(HKEY_CLASSES_ROOT, KeyPath, 0, NULL, REG_OPTION_NON_VOLATILE, KEY_ALL_ACCESS, 0, &Key, NULL);
        RegCloseKey(Key);

        sprintf(KeyPath, "%s\\shell\\%s\\command", ProgID, Verb);
        RegCreateKeyEx(HKEY_CLASSES_ROOT, KeyPath, 0, NULL, REG_OPTION_NON_VOLATILE, KEY_ALL_ACCESS, 0, &Key, NULL);
        RegSetValueEx(Key, NULL, 0, REG_SZ, (unsigned char*)Command, strlen(Command));
    }
} // Check Key Contents
else
{ // Add new entry

    if (!Confirmation) {
        if (GetUserConfirmation() != IDYES) return false;
        else Confirmation = true;
    }

    sprintf(KeyPath, "%s\\shell", ProgID);
    RegCreateKeyEx(HKEY_CLASSES_ROOT, KeyPath, 0, NULL, REG_OPTION_NON_VOLATILE, KEY_ALL_ACCESS, 0, &Key, NULL);
    RegCloseKey(Key);

    sprintf(KeyPath, "%s\\shell\\%s", ProgID, Verb);
    RegCreateKeyEx(HKEY_CLASSES_ROOT, KeyPath, 0, NULL, REG_OPTION_NON_VOLATILE, KEY_ALL_ACCESS, 0, &Key, NULL);
    RegCloseKey(Key);

    sprintf(KeyPath, "%s\\shell\\%s\\command", ProgID, Verb);
    RegCreateKeyEx(HKEY_CLASSES_ROOT, KeyPath, 0, NULL, REG_OPTION_NON_VOLATILE, KEY_ALL_ACCESS, 0, &Key, NULL);
    RegSetValueEx(Key, NULL, 0, REG_SZ, (unsigned char*)Command, strlen(Command));

} // Add new entry
RegCloseKey(Key);
return true;
}

void CheckShellRegistry()
{
    if (!RegOptions.Associations) return;

    Confirmation = false;

    if (!CheckFileExtention(".d2s", D2SPROGID)) return;
    if (!CheckFileExtention(".d2i", D2IPROGID)) return;
    if (!CheckFileExtention(".item", D2IPROGID)) return;
    if (!CheckFileExtention(".ite", D2IPROGID)) return;
    if (!CheckFileExtention(".itm", D2IPROGID)) return;

    if (!CheckDescription(D2SPROGID, D2SDESCRIPTION)) return;
    if (!CheckDescription(D2IPROGID, D2IDESCRPTION)) return;

    if (!CheckIcon(D2SPROGID, ProgramFilePath(), 1)) return;
    if (!CheckIcon(D2IPROGID, ProgramFilePath(), 2)) return;

    char command[260];
    sprintf(command, "%s\\ \"%%1\\\"", ProgramFilePath());
}

```

```

if (!CheckShellVerb(D2SPROGID, "open", command)) return;

SHChangeNotify(SHCNE_ASSOCCHANGED, 0, 0, 0);
}

struct _RegOptions      RegOptions;

struct
{
    char*      ValName;
    DWORD      Type;
    BYTE*      Ptr;
    DWORD      PtrSize;
    int        Default;
}
QueryValues[] =
{
    { "CreateItemRecordFormat",
      REG_DWORD,
      (BYTE*)&RegOptions.CreateItemRecordFormat,
      sizeof RegOptions.CreateItemRecordFormat,
      0 },

    { "AllItemsSocketable",
      REG_DWORD,
      (BYTE*)&RegOptions.AllItemsSocketable,
      sizeof RegOptions.AllItemsSocketable,
      0 },

    { "7Gems",
      REG_DWORD,
      (BYTE*)&RegOptions.A7Gems,
      sizeof RegOptions.A7Gems,
      0 },

    { "ExceedQuantity",
      REG_DWORD,
      (BYTE*)&RegOptions.ExceedQuantity,
      sizeof RegOptions.ExceedQuantity,
      0 },

    { "ItemPath",
      REG_SZ,
      (BYTE*)RegOptions.ItemPath,
      sizeof RegOptions.ItemPath,
      0 },

    { "Associations",
      REG_DWORD,
      (BYTE*)&RegOptions.Associations,
      sizeof RegOptions.Associations,
      1 },

    { "ToolTips",
      REG_DWORD,
      (BYTE*)&RegOptions.ToolTips,
      sizeof RegOptions.ToolTips,
      1 },

    { "AnnoyingMsgs",
      REG_DWORD,
      (BYTE*)&RegOptions.NoAnnoyingMsgs,
      sizeof RegOptions.NoAnnoyingMsgs,
      0 },
};

void LoadEditorRegistryValues()
{
    atexit(&SaveEditorRegistryValues);

    HKEY Key;
    if (RegOpenKeyEx(HKEY_CURRENT_USER, REGISTRYKEY, 0, KEY_ALL_ACCESS, &Key) != ERROR_SUCCESS) {

        for(int z=0; z<sizeof QueryValues / sizeof QueryValues[0]; z++)
        {
            if (QueryValues[z].Type == REG_DWORD) {
                *(DWORD *)QueryValues[z].Ptr = QueryValues[z].Default;
            }
        }
    }
}

```

```

    }
    return;
}

DWORD Type;

for(int z=0;z<sizeof QueryValues / sizeof QueryValues[0];z++)
{
    if (RegQueryValueEx(Key,QueryValues[z].ValName,0,&Type,NULL,NULL) != ERROR_SUCCESS)
    {
        if (QueryValues[z].Type == REG_DWORD) {
            *(DWORD *)QueryValues[z].Ptr = QueryValues[z].Default;
        }
    }
    else if (Type == QueryValues[z].Type)
    {
        if (RegQueryValueEx(Key,QueryValues[z].ValName,0,&Type,QueryValues[z].Ptr,&QueryValues[z].PtrSize) != ERROR_
SUCCESS) {
            if (QueryValues[z].Type == REG_DWORD) {
                *(DWORD *)QueryValues[z].Ptr = QueryValues[z].Default;
            }
        }
    }
}

RegCloseKey(Key);
}

void SaveEditorRegistryValues()
{
    HKEY Key;
    if (RegCreateKeyEx(HKEY_CURRENT_USER,REGISTRYKEY,0,NULL,REG_OPTION_NON_VOLATILE,KEY_ALL_ACCESS,0,&Key,NULL) != ERROR_
_SUCCESS) return;

    for(int z=0;z<sizeof QueryValues / sizeof QueryValues[0];z++)
    {
        RegSetValueEx(Key,QueryValues[z].ValName,0,QueryValues[z].Type,QueryValues[z].Ptr,QueryValues[z].PtrSize);
    }

    RegCloseKey(Key);
}

```

```

// File.cpp from D2E

#include "JamellaD2E.h"

// Resources
HICON      hIconHelp;

// Progress Bar Macros
inline void ProgressText(const char *text)
{
    SetDlgItemText(hTabDialog, IDC_PROGRESS_Text, text);
}
inline void ProgressBarRange(int min, int max)
{
    SendDlgItemMessage(hTabDialog, IDC_PROGRESS_Bar, PBM_SETRANGE, 0, MAKELPARAM(min, max));
}
inline void ProgressBarSet(int i)
{
    SendDlgItemMessage(hTabDialog, IDC_PROGRESS_Bar, PBM_SETPOS, i, 0);
}
inline void ProgressBarSetStep(int i)
{
    SendDlgItemMessage(hTabDialog, IDC_PROGRESS_Bar, PBM_SETSTEP, i, 0);
}
inline void ProgressBarStep()
{
    SendDlgItemMessage(hTabDialog, IDC_PROGRESS_Bar, PBM_STEPIT, 0, 0);
    PollMessages();
}

HMENU hBatchMenu;

// Bitmaps
struct
{
    int      Type;
    int      ID;
    HANDLE   *Handle;
}
rc[] =
{
    { IMAGE_BITMAP,  IDB_JAMELLA,          (HANDLE*)&hBmpJamella },
    { IMAGE_BITMAP,  IDB_PLUS,            (HANDLE*)&hBmpPlus },
    { IMAGE_BITMAP,  IDB_WAYPOINT_ON,     (HANDLE*)&hBmpWaypointOn },
    { IMAGE_BITMAP,  IDB_WAYPOINT_OFF,    (HANDLE*)&hBmpWaypointOff },
    { IMAGE_BITMAP,  IDB_ITEM_UNKNOWN,    (HANDLE*)&itemunknown.hBmp },
    { IMAGE_BITMAP,  IDB_NOTPLACEABLE,    (HANDLE*)&hBmpNotPlaceable },
    { IMAGE_BITMAP,  IDB_INV_WHOLE,       (HANDLE*)&hBmpBodyWhole },
    { IMAGE_BITMAP,  IDB_WEBLINK,         (HANDLE*)&hBmpWebLink },
    { IMAGE_ICON,    IDI_HELP,             (HANDLE*)&hIconHelp },
    { IMAGE_CURSOR,  IDC_CUR_MOVE,        (HANDLE*)&hCurMove },
    { IMAGE_CURSOR,  IDC_CUR_MOVECOPY,    (HANDLE*)&hCurMoveCopy },
    { IMAGE_CURSOR,  IDC_CUR_CROSS,       (HANDLE*)&hCurCross },
    { IMAGE_CURSOR,  IDC_CUR_ADD,         (HANDLE*)&hCurAdd },
    { IMAGE_CURSOR,  IDC_CUR_NO,          (HANDLE*)&hCurNo },
};

void D2ELoadResources()
{
    ProgressBarSetStep(1);

    int ImgNum = 0;
    ImgNum += 30*5;
    ImgNum += 21;
    #if PRELOADITEMIMAGES == 1
    ImgNum += nItemInfos;
    #endif
    ImgNum += 5+3;
    ImgNum += sizeof rc / sizeof rc[0];

    ProgressBarRange(0, ImgNum);

    ProgressText("Loading Skill Bitmaps...");
    for(int z=0; z<30*5; z++)
    {
        skills[z].hbitmap = LoadBitmap(hInstance, MAKEINTRESOURCE(skills[z].idbitmap));
        ProgressBarStep();
    }
}

```

```

ProgressText("Loading Quest Bitmaps...");
for(z=0;z<21;z++)
{
    quests[z].hbitmap = LoadBitmap(hInstance,MAKEINTRESOURCE(quests[z].idbitmap));
    if (!quests[z].hbitmap)
    {
        ErrorMessage();
        exit(0);
    }
    LoadString(hInstance,quests[z].idstring,quests[z].string,60);
    ProgressBarStep();
}

ProgressText("Loading Item Bitmaps...");
#ifdef PRELOADITEMIMAGES == 1
for(z=0;z<nItemInfos;z++)
{
    if (ItemInfos[z].BitmapID)
    {
        ItemInfos[z].hBmp = LoadBitmap(hInstance,MAKEINTRESOURCE(ItemInfos[z].BitmapID));

        if (ItemInfos[z].hBmp)
        {
            BITMAP bmpinfo;
            if (GetObject(ItemInfos[z].hBmp,sizeof bmpinfo,&bmpinfo) == 0)
            {
                ErrorMessage();
                exit(0);
            }

            if (bmpinfo.bmWidth != ItemInfos[z].SizeX * 29 - 1 ||
                bmpinfo.bmHeight != ItemInfos[z].SizeY * 29 - 1)
            {
                sprintf(buffer,"Resource Error [%i|%i]\nID = %i",bmpinfo.bmWidth,bmpinfo.bmHeight,ItemInfos[z].Bitma
pID);
                MessageBox(hTabDialog,buffer,PROGRAMNAME,
                    MB_OK | MB_ICONSTOP | MB_APPLMODAL);
                exit(0);
            }
        }
        else
        {
            ErrorMessage();
            exit(0);
        }
    }
    ProgressBarStep();
}
#endif

for(z=0;z<5;z++)
{
    RingImages[z].hBmp = LoadBitmap(hInstance,MAKEINTRESOURCE(RingImages[z].BmpID));
    if (!RingImages[z].hBmp)
    {
        ErrorMessage();
        exit(0);
    }
    ProgressBarStep();
}
for(z=0;z<3;z++)
{
    AmuletImages[z].hBmp = LoadBitmap(hInstance,MAKEINTRESOURCE(AmuletImages[z].BmpID));
    if (!AmuletImages[z].hBmp)
    {
        ErrorMessage();
        exit(0);
    }
    ProgressBarStep();
}

ProgressText("Loading Miscellaneous Resources...");
for(z=0;z<sizeof rc / sizeof rc[0];z++)
{
    *rc[z].Handle = LoadImage(hInstance,MAKEINTRESOURCE(rc[z].ID),rc[z].Type,0,0,LR_DEFAULTCOLOR | LR_SHARED);
    if (!*rc[z].Handle)
    {
        ErrorMessage();
        exit(0);
    }
}

```

```

    }
    ProgressBarStep();
}

hBatchMenu = LoadMenu(hInstance,MAKEINTRESOURCE(IDR_BATCH));

hBrushBlack = (HBRUSH) GetStockObject(BLACK_BRUSH);
hBrushNull = (HBRUSH) GetStockObject(NULL_BRUSH);
hPenWhite = CreatePen(PS_SOLID,1,RGB(240,240,240));
hPenGreen = CreatePen(PS_SOLID,2,RGB(0,255,0));
hPenBusy = CreatePen(PS_SOLID,2,RGB(255,0,0));
hPenUnwearable = CreatePen(PS_SOLID,1,RGB(255,0,0));
}

/*
    // Imagelist for ItemTree
    if ((hTVImagelist = ImageList_Create(16,16,ILC_COLORDBB,3,0)) == NULL) return false;

    HDC hdcbitmap = CreateCompatibleDC(NULL);
    HDC hdcbitmaps = CreateCompatibleDC(NULL);

    HBITMAP hbmp = LoadBitmap(hInstance,MAKEINTRESOURCE(IDB_ITEM_1170_S_00));
    SelectObject(hdcbitmap, hbmp);

    HBITMAP hsbmp = CreateCompatibleBitmap(hdcbitmap,16,16);
    SelectObject(hdcbitmaps, hsbmp);

    if(!StretchBlt(hdcbitmaps,0,0,16,16,hdcbitmap,0,0,28,28,SRCCOPY)) OutputDebugString("FUCK\n");

    DeleteDC(hdcbitmap);
    DeleteDC(hdcbitmaps);

    BITMAP info;
    GetObject(hsbmp,sizeof(info),&info);

    ImageList_Add(hTVImagelist,hsbmp,NULL);
    DeleteObject(hbmp);
    DeleteObject(hsbmp);
*/

void D2EUnLoadResources()
{
    for(int z=0;z<30*5;z++)
    {
        if (skills[z].hbitmap)
            DeleteObject(skills[z].hbitmap);
    }
    for(z=0;z<21;z++)
    {
        if (quests[z].hbitmap)
            DeleteObject(quests[z].hbitmap);
    }
    for(z=0;z<nItemInfos;z++)
    {
        if (ItemInfos[z].hBmp)
            DeleteObject(ItemInfos[z].hBmp);
    }
    for(z=0;z<5;z++)
    {
        if (RingImages[z].hBmp)
            DeleteObject(RingImages[z].hBmp);
    }
    for(z=0;z<3;z++)
    {
        if (AmuletImages[z].hBmp)
            DeleteObject(AmuletImages[z].hBmp);
    }

    for(z=0;z<sizeof rc / sizeof rc[0];z++)
    {
        if (rc[z].Handle)
            DeleteObject(*rc[z].Handle);
    }

    DestroyMenu(hBatchMenu);

    DeleteObject(hBrushBlack);
}

```

```
DeleteObject(hPenWhite);  
DeleteObject(hPenGreen);  
DeleteObject(hPenBusy);  
DeleteObject(hPenUnwearable);  
}
```



```
#include "JamellaD2E.h"

struct ImageMap RingImages[] =
{
    { IDB_ITEM_RING3 },
    { IDB_ITEM_RING4 },
    { IDB_ITEM_RING5 },
    { IDB_ITEM_RING1 },
    { IDB_ITEM_RING2 },
};

struct ImageMap AmuletImages[] =
{
    { IDB_ITEM_AMULET1 },
    { IDB_ITEM_AMULET2 },
    { IDB_ITEM_AMULET3 },
};
```

```
#include "Jamellad2E.h"

LRESULT CALLBACK SaveDialogProc(HWND hWnd,UINT uMsg,WPARAM wParam,LPARAM lParam)
{
    switch(uMsg)
    {
        case WM_INITDIALOG:
        {
            }
        return true;
        case WM_COMMAND:
            switch (LOWORD(wParam))
            {
                case IDOK:
                    if (IsDlgButtonChecked(hWnd,IDC_SAVE_Backup) == BST_CHECKED)
                        EndDialog(hWnd,2);
                    else
                        EndDialog(hWnd,1);

                    return true;
                case IDCANCEL:
                    EndDialog(hWnd,0);
                    return true;
            }
            break;
        case WM_CLOSE:
            EndDialog(hWnd,0);
            return true;
        case WM_DESTROY:
            return false;
    }
    return false;
}
```



```
#include "JamellaD2E.h"

const struct _SuperiorItem SuperiorItemTable[] =
{
{ 0,1,'ht00',1,3,0,0,0,250,1,2,100 },
{ 1,1,'dm02',5,15,0,0,0,250,1,3,250 },
{ 2,1,'ar02',5,15,0,0,0,1797,1,2,200 },
{ 3,2,'ht00',1,3,'dm02',5,15,250,3,5,350 },
{ 4,1,'du01',10,15,0,0,0,2047,1,2,100 },
{ 5,2,'ht00',1,3,'du01',10,15,250,3,5,350 },
{ 6,2,'dm02',5,15,'du01',10,15,250,3,5,350 },
{ 7,2,'ar02',5,15,'du01',10,15,1797,3,5,350 },
};

int nSuperiorItemTable = sizeof SuperiorItemTable / sizeof SuperiorItemTable[0];
```

```

// Tab0.cpp from D2E

#include "JamellaD2E.h"

HBITMAP hBmpJamella;

LRESULT CALLBACK Tab0DialogProc(HWND hWnd,UINT uMsg,WPARAM wParam,LPARAM lParam)
{
    switch(uMsg)
    {
        case WM_INITDIALOG:
        {
            #if RELEASE == PUB
                sprintf(buffer,"%s %s",PROGRAMNAME,VERSION);
            #else
                sprintf(buffer,"%s %s [%s]",PROGRAMNAME,VERSION, __DATE__);
            #endif

            SetDlgItemText(hWnd,IDC_TAB0_Version,buffer);
            SendDlgItemMessage(hWnd,IDC_TAB0_BmpJamella,STM_SETIMAGE,IMAGE_BITMAP,(LPARAM) hBmpJamella);
        }
        return true;
    }
    return false;
}
/*
bool ShowPopupHelp(HWND hWnd,LPARAM lParam)
{
    HELPPINFO *HI = (LPHELPPINFO) lParam;

    const PopupHelp *PH = 0;

    if ((HWND) HI->hItemHandle == hMainDialog) {

        RECT r;
        GetWindowRect(hTabDialog,&r);

        POINT spt = HI->MousePos;
        spt.x -= r.left;
        spt.y -= r.top;

        HWND hCtrl = ChildWindowFromPointEx(hTabDialog,spt,CWP_SKIPTRANSPARENT);

        if (!hCtrl) return false;

        int CtrlID = GetDlgCtrlID(hCtrl);
        PH = FindPopupHelp(CtrlID);
    }
    else {
        int CtrlID = GetDlgCtrlID((HWND) HI->hItemHandle);
        PH = FindPopupHelp(CtrlID);
    }

    if (!PH) {
        MessageBeep(MB_ICONHAND);
        return false;
    }

    HH_POPUP Popup;

    ZeroMemory(&Popup,sizeof Popup);
    Popup.cbStruct = sizeof Popup;
    Popup.idString = 0;
    Popup.pszText = PH->HelpText;
    Popup.pt = HI->MousePos;
    Popup.clrForeground = RGB(255,0,0);
    Popup.clrBackground = RGB(255,255,239);
    Popup.rcMargins.left = Popup.rcMargins.right = Popup.rcMargins.top = Popup.rcMargins.bottom = -1;
    Popup.pszFont = "MS Sans Serif, 8";

    HtmlHelp((HWND) HI->hItemHandle, 0,
        HH_DISPLAY_TEXT_POPUP, (DWORD) &Popup);

    return true;
}
*/

```

```

// Tabl.cpp from D2E

#include "JamellaD2E.h"

HBITMAP hBmpPlus;

/*
struct
{
    char    *text;
    int     value;
}
StartTowns[4*3] =
{
    { "Rogues' Encampment in Normal", 0x00 },
    { "Lut Gholein in Normal", 0x01 },
    { "Kurast Docks in Normal", 0x02 },
    { "Pandemonium Fortress in Normal", 0x03 },

    { "Rogues' Encampment in Nightmare", 0x10 },
    { "Lut Gholein in Nightmare", 0x11 },
    { "Kurast Docks in Nightmare", 0x12 },
    { "Pandemonium Fortress in Nightmare", 0x13 },

    { "Rogues' Encampment in Hell", 0x20 },
    { "Lut Gholein in Hell", 0x21 },
    { "Kurast Docks in Hell", 0x22 },
    { "Pandemonium Fortress in Hell", 0x23 }
};
*/
struct
{
    char    *text;
    int     value;
}
StartTowns[4] =
{
    { "Rogues' Encampment", 0x00 },
    { "Lut Gholein", 0x01 },
    { "Kurast Docks", 0x02 },
    { "Pandemonium Fortress", 0x03 },
};

const struct
{
    int     Vitality[3];
    int     Energy[3];
    int     Level[3];
}
Boosts[5] =
{
    { // Amazon
      { 3, 0, 1 },
      { 0, 2, 0 },
      { 2, 2, 1 }
    },
    { // Sorceress
      { 2, 0, 1 },
      { 0, 2, 0 },
      { 1, 2, 1 }
    },
    { // Necromancer
      { 2, 0, 1 },
      { 0, 2, 0 },
      { 2, 2, 1 }
    },
    { // Paladin
      { 3, 0, 1 },
      { 0, 2, 0 },
      { 2, 2, 1 }
    },
    { // Barbarian
      { 4, 0, 1 },
      { 0, 1, 0 },
      { 2, 1, 1 }
    }
};

```

```
const struct
```

```

{
    int    id;
    DWORD* val;
}
values[] =
{
    { IDC_TAB1_Level,      &fc.gf.level      },
    { IDC_TAB1_Experience, &fc.gf.experience },
    { IDC_TAB1_Char1,     &fc.gf.strength  },
    { IDC_TAB1_Char2,     &fc.gf.dexterity  },
    { IDC_TAB1_Char3,     &fc.gf.vitality   },
    { IDC_TAB1_Char4,     &fc.gf.energy     },
    { IDC_TAB1_Char5,     &fc.gf.statsbonus },
    { IDC_TAB1_Health,    &fc.gf.health     },
    { IDC_TAB1_HealthMax, &fc.gf.healthmax  },
    { IDC_TAB1_Mana,      &fc.gf.mana       },
    { IDC_TAB1_ManaMax,   &fc.gf.manamax    },
    { IDC_TAB1_Stamina,   &fc.gf.stamina    },
    { IDC_TAB1_StaminaMax, &fc.gf.staminamax },
    { IDC_TAB1_GoldPerson, &fc.gf.goldperson },
    { IDC_TAB1_GoldStash, &fc.gf.goldstash  },
};

extern DWORD experiencelevels[100];
extern int    goldstash[10];
bool editchanging = false;

DWORD level;
DWORD maxgoldperson,maxgoldstash;

void calc_maxgold(HWND hWnd)
{
    if (level > 0 && level <= 99)
    {
        maxgoldperson = level * 10000;
        maxgoldstash = goldstash[level / 10];

        sprintf(buffer, "/ %lu", maxgoldperson);
        SetDlgItemText(hWnd, IDC_TAB1_MaxGoldPerson, buffer);
        sprintf(buffer, "/ %lu", maxgoldstash);
        SetDlgItemText(hWnd, IDC_TAB1_MaxGoldStash, buffer);

        DWORD x = GetDlgItemInt(hWnd, IDC_TAB1_GoldPerson, 0, FALSE);
        if (x > maxgoldperson)
            SetDlgItemInt(hWnd, IDC_TAB1_GoldPerson, maxgoldperson, FALSE);

        x = GetDlgItemInt(hWnd, IDC_TAB1_GoldStash, 0, FALSE);
        if (x > maxgoldperson)
            SetDlgItemInt(hWnd, IDC_TAB1_GoldStash, maxgoldperson, FALSE);
    }
    else
    {
        SetDlgItemText(hWnd, IDC_TAB1_MaxGoldPerson, "/ ???????");
        SetDlgItemText(hWnd, IDC_TAB1_MaxGoldStash, "/ ???????");
    }
}

LRESULT CALLBACK TablDialogProc(HWND hWnd,UINT uMsg,WPARAM wParam,LPARAM lParam)
{
    switch(uMsg)
    {
        case WM_INITDIALOG:
            {
                // Associate Bitmaps
                SendDlgItemMessage(hWnd, IDC_TAB1_Plus1, STM_SETIMAGE, IMAGE_BITMAP, (LPARAM) hBmpPlus);
                SendDlgItemMessage(hWnd, IDC_TAB1_Plus2, STM_SETIMAGE, IMAGE_BITMAP, (LPARAM) hBmpPlus);
                SendDlgItemMessage(hWnd, IDC_TAB1_Plus3, STM_SETIMAGE, IMAGE_BITMAP, (LPARAM) hBmpPlus);
                SendDlgItemMessage(hWnd, IDC_TAB1_Plus4, STM_SETIMAGE, IMAGE_BITMAP, (LPARAM) hBmpPlus);
                SendDlgItemMessage(hWnd, IDC_TAB1_Plus5, STM_SETIMAGE, IMAGE_BITMAP, (LPARAM) hBmpPlus);

                // Add Classes to Class List Box
                HWND hClass = GetDlgItem(hWnd, IDC_TAB1_Class);
                SendMessage(hClass, CB_RESETCONTENT, 0, 0);
                for (int i=0; i<5; i++)
                    SendMessage(hClass, CB_ADDSTRING, 0, (LPARAM) CharClasses[i]);

                // Add Difficulties to List Box
                HWND hDiff = GetDlgItem(hWnd, IDC_TAB1_Difficulty);
                SendMessage(hDiff, CB_RESETCONTENT, 0, 0);
            }
    }
}

```

```

for (i=0;i<4;i++)
    SendMessage(hDiff,CB_ADDSTRING,0,(LPARAM) Difficulties[i]);

// Add Towns to List Box
HWND hTown = GetDlgItem(hWnd,IDC_TAB1_StartTown);
SendMessage(hTown,CB_RESETCONTENT,0,0);
for (i=0;i<4;i++)
    SendMessage(hTown,CB_ADDSTRING,0,(LPARAM) StartTowns[i].text);

// Load Character values
SetDlgItemText(hWnd,IDC_TAB1_Name,fc.Header.playername);
SendMessage(hClass,CB_SETCURSEL,fc.Header.playerclass,0);

for (i=0;i<4;i++)
{
    if (StartTowns[i].value == (fc.Header.startingtown & 0x0F))
        SendMessage(hTown,CB_SETCURSEL,i,0);
}

for(i=0;i < sizeof values / sizeof values[0];i++)
    SetDlgItemInt(hWnd,values[i].id,*values[i].val,FALSE);

level = fc.gf.level;
calc_maxgold(hWnd);

CheckDlgButton(hWnd,IDC_TAB1_Hardcore,
    fc.Header.hardcore & 0x04 ? BST_CHECKED : BST_UNCHECKED);
CheckDlgButton(hWnd,IDC_TAB1_Dead,
    fc.Header.hardcore & 0x08 ? BST_CHECKED : BST_UNCHECKED);

HWND hDead = GetDlgItem(hWnd,IDC_TAB1_Dead);
EnableWindow(hDead,
    (IsDlgButtonChecked(hWnd,IDC_TAB1_Hardcore) == BST_CHECKED));

int diff = 0;
if ((fc.Header.diff & 0x0C) == 0x04) diff = 1;
if ((fc.Header.diff & 0x0C) == 0x08) diff = 2;
if ((fc.Header.diff & 0x0C) == 0x0C) diff = 3;
SendMessage(hDiff,CB_SETCURSEL,diff,0);

CheckDlgButton(hWnd,IDC_TAB1_StatsLink,BST_CHECKED);

hToolTip = CreateToolTipCtrl(hWnd,IDD_TAB1,true);
}
return true;
case WM_COMMAND:
{
    switch(LOWORD(wParam))
    {
        case IDC_TAB1_Plus1:
        case IDC_TAB1_Plus2:
        case IDC_TAB1_Plus3:
        case IDC_TAB1_Plus4:
        case IDC_TAB1_Plus5:
            switch(HIWORD(wParam))
            {
                case STN_CLICKED:
                case STN_DBLCLK:
                {
                    int id = LOWORD(wParam) - IDC_TAB1_Plus1;
                    DWORD x = GetDlgItemInt(hWnd,IDC_TAB1_Char1+id,NULL,FALSE);
                    SetDlgItemInt(hWnd,IDC_TAB1_Char1+id,x+1,FALSE);

                    int c = (BYTE)SendMessage(hWnd,IDC_TAB1_Class,CB_GETCURSEL,0,0);

                    if (IsDlgButtonChecked(hWnd,IDC_TAB1_StatsLink) == BST_CHECKED)
                    {
                        switch(LOWORD(wParam))
                        {
                            case IDC_TAB1_Plus3:
                                x = GetDlgItemInt(hWnd,IDC_TAB1_HealthMax,NULL,FALSE);
                                x += Boosts[c].Vitality[0];
                                SetDlgItemInt(hWnd,IDC_TAB1_HealthMax,x,FALSE);

                                x = GetDlgItemInt(hWnd,IDC_TAB1_ManaMax,NULL,FALSE);
                                x += Boosts[c].Vitality[1];
                                SetDlgItemInt(hWnd,IDC_TAB1_ManaMax,x,FALSE);

                                x = GetDlgItemInt(hWnd,IDC_TAB1_StaminaMax,NULL,FALSE);

```



```

        x += Boosts[c].Vitality[2];
        SetDlgItemInt(hWnd, IDC_TAB1_StaminaMax, x, FALSE);
        break;
    case IDC_TAB1_Plus4:
        x = GetDlgItemInt(hWnd, IDC_TAB1_HealthMax, NULL, FALSE);
        x += Boosts[c].Energy[0];
        SetDlgItemInt(hWnd, IDC_TAB1_HealthMax, x, FALSE);

        x = GetDlgItemInt(hWnd, IDC_TAB1_ManaMax, NULL, FALSE);
        x += Boosts[c].Energy[1];
        SetDlgItemInt(hWnd, IDC_TAB1_ManaMax, x, FALSE);

        x = GetDlgItemInt(hWnd, IDC_TAB1_StaminaMax, NULL, FALSE);
        x += Boosts[c].Energy[2];
        SetDlgItemInt(hWnd, IDC_TAB1_StaminaMax, x, FALSE);
        break;
    }
}
break;
}
break;
case IDC_TAB1_Experience:
    if (editchanging) break;
    switch(HIWORD(wParam))
    {
    case EN_CHANGE:
        {
            char *end;

            editchanging = true;
            int anz = GetDlgItemText(hWnd, IDC_TAB1_Experience, buffer, 32);
            DWORD x = strtoul(buffer, &end, 10);
            if (end == buffer + anz && x < 4294967294)
            {
                for(int z=0; z<99; z++)
                {
                    if (experiencelevels[z] > x)
                    {
                        break;
                    }
                }
                SetDlgItemInt(hWnd, IDC_TAB1_Level, z, FALSE);
                level = z;
            }
            else
            {
                SetDlgItemText(hWnd, IDC_TAB1_Level, "???");
                level = 0;
            }
            calc_maxgold(hWnd);
            editchanging = false;
        }
    }
    break;
case IDC_TAB1_Level:
    if (editchanging) break;
    switch(HIWORD(wParam))
    {
    case EN_CHANGE:
        {
            char buffer[32];
            char *end;

            editchanging = true;
            int anz = GetDlgItemText(hWnd, IDC_TAB1_Level, buffer, 32);
            DWORD x = strtoul(buffer, &end, 10);

            if (end == buffer + anz && x > 0 && x <= 99)
            {
                DWORD lvl = experiencelevels[x-1] + 100;
                SetDlgItemInt(hWnd, IDC_TAB1_Experience, lvl, FALSE);
                level = x;
            }
            else
            {
                SetDlgItemText(hWnd, IDC_TAB1_Experience, "???");
                level = 0;
            }
        }
    }
}

```

```

        editchanging = false;
        calc_maxgold(hWnd);
    }
}
break;
case IDC_TAB1_Hardcore:
    switch(HIWORD(wParam))
    {
        case BN_CLICKED:
            {
                EnableWindow(GetDlgItem(hWnd, IDC_TAB1_Dead),
                    (IsDlgButtonChecked(hWnd, IDC_TAB1_Hardcore) == BST_CHECKED));
            }
        }
    }
break;
case IDC_TAB1_Rename:
    if (HIWORD(wParam) == BN_CLICKED)
    {
        DialogBox(hInstance, MAKEINTRESOURCE(IDD_RENAME), hWnd, (DLGPROC) RenameDialogProc);
        SetDlgItemText(hWnd, IDC_TAB1_Name, fc.Header.playername);
    }
break;
case IDC_TAB1_SetMaxGoldPerson:
    switch(HIWORD(wParam))
    {
        case BN_CLICKED:
            {
                SetDlgItemInt(hWnd, IDC_TAB1_GoldPerson, maxgoldperson, FALSE);
            }
        }
    }
break;
case IDC_TAB1_SetMaxGoldStash:
    switch(HIWORD(wParam))
    {
        case BN_CLICKED:
            {
                SetDlgItemInt(hWnd, IDC_TAB1_GoldStash, maxgoldstash, FALSE);
            }
        }
    }
break;
case IDC_TAB1_Batch:
    switch(HIWORD(wParam))
    {
        case BN_CLICKED:
            {
                HMENU hMenu = GetSubMenu(hBatchMenu, 0);

                POINT Pos;
                GetCursorPos(&Pos);

                TrackPopupMenu(hMenu, TPM_LEFTALIGN | TPM_LEFTBUTTON,
                    Pos.x, Pos.y, 0, hWnd, NULL);
            }
        }
    }
break;
break;
case IDR_TAB1_RestoreConstitution:
    if (HIWORD(wParam) == BN_CLICKED)
    {
        int X = GetDlgItemInt(hWnd, IDC_TAB1_HealthMax, NULL, FALSE);
        SetDlgItemInt(hWnd, IDC_TAB1_Health, X, FALSE);

        int Y = GetDlgItemInt(hWnd, IDC_TAB1_ManaMax, NULL, FALSE);
        SetDlgItemInt(hWnd, IDC_TAB1_Mana, Y, FALSE);

        int Z = GetDlgItemInt(hWnd, IDC_TAB1_StaminaMax, NULL, FALSE);
        SetDlgItemInt(hWnd, IDC_TAB1_Stamina, Z, FALSE);
    }
break;
case IDR_TAB1_SetAllStats40:
case IDR_TAB1_SetAllStats60:
case IDR_TAB1_SetAllStats80:
case IDR_TAB1_SetAllStats100:
case IDR_TAB1_SetAllStats120:
case IDR_TAB1_SetAllStats140:
case IDR_TAB1_SetAllStats160:
case IDR_TAB1_SetAllStats180:
case IDR_TAB1_SetAllStats200:
case IDR_TAB1_SetAllStats250:

```

```

case IDR_TAB1_SetAllStats300:
case IDR_TAB1_SetAllStats350:
case IDR_TAB1_SetAllStats400:
case IDR_TAB1_SetAllStats450:
case IDR_TAB1_SetAllStats500:
{
    struct
    {
        int ID;
        int Value;
    } Stats[] =
    {
        { IDR_TAB1_SetAllStats40, 40 },
        { IDR_TAB1_SetAllStats60, 60 },
        { IDR_TAB1_SetAllStats80, 80 },
        { IDR_TAB1_SetAllStats100, 100 },
        { IDR_TAB1_SetAllStats120, 120 },
        { IDR_TAB1_SetAllStats140, 140 },
        { IDR_TAB1_SetAllStats160, 160 },
        { IDR_TAB1_SetAllStats180, 180 },
        { IDR_TAB1_SetAllStats200, 200 },
        { IDR_TAB1_SetAllStats250, 250 },
        { IDR_TAB1_SetAllStats300, 300 },
        { IDR_TAB1_SetAllStats350, 350 },
        { IDR_TAB1_SetAllStats400, 400 },
        { IDR_TAB1_SetAllStats450, 450 },
        { IDR_TAB1_SetAllStats500, 500 }
    };

    int V = 0;
    for(int z=0;z<sizeof Stats / sizeof Stats[0];z++) {
        if (Stats[z].ID == LOWORD(wParam))
            V = Stats[z].Value;
    }

    SetDlgItemInt(hWnd, IDC_TAB1_Char1, V, FALSE);
    SetDlgItemInt(hWnd, IDC_TAB1_Char2, V, FALSE);
    SetDlgItemInt(hWnd, IDC_TAB1_Char3, V, FALSE);
    SetDlgItemInt(hWnd, IDC_TAB1_Char4, V, FALSE);
}
break;
case IDR_TAB1_SetAllConstitution400:
case IDR_TAB1_SetAllConstitution600:
case IDR_TAB1_SetAllConstitution800:
case IDR_TAB1_SetAllConstitution1000:
case IDR_TAB1_SetAllConstitution1500:
case IDR_TAB1_SetAllConstitution2000:
case IDR_TAB1_SetAllConstitution3000:
case IDR_TAB1_SetAllConstitution5000:
{
    struct
    {
        int ID;
        int Value;
    } Consts[] =
    {
        { IDR_TAB1_SetAllConstitution400, 400 },
        { IDR_TAB1_SetAllConstitution600, 600 },
        { IDR_TAB1_SetAllConstitution800, 800 },
        { IDR_TAB1_SetAllConstitution1000, 1000 },
        { IDR_TAB1_SetAllConstitution1500, 1500 },
        { IDR_TAB1_SetAllConstitution2000, 2000 },
        { IDR_TAB1_SetAllConstitution3000, 3000 },
        { IDR_TAB1_SetAllConstitution5000, 5000 }
    };

    int V = 0;
    for(int z=0;z<sizeof Consts / sizeof Consts[0];z++) {
        if (Consts[z].ID == LOWORD(wParam))
            V = Consts[z].Value;
    }

    SetDlgItemInt(hWnd, IDC_TAB1_Health, V, FALSE);
    SetDlgItemInt(hWnd, IDC_TAB1_HealthMax, V, FALSE);
    SetDlgItemInt(hWnd, IDC_TAB1_Mana, V, FALSE);
    SetDlgItemInt(hWnd, IDC_TAB1_ManaMax, V, FALSE);
    SetDlgItemInt(hWnd, IDC_TAB1_Stamina, V, FALSE);
    SetDlgItemInt(hWnd, IDC_TAB1_StaminaMax, V, FALSE);
}

```

```

        break;
    }
}
break;
case WM_VALIDATE:
{
    if (level == 0)
    {
        MessageBox(hWnd, "Level and Experience are invalid!!!\nPlease correct.", PROGRAMNAME, MB_OK);
        return true;
    }
    return false;
}
case WM_DESTROY:
{
    // Retrieve User Changed Data
    GetDlgItemText(hWnd, IDC_TAB1_Name, fc.Header.playername, 16);
    fc.Header.playerclass = (BYTE)SendDlgItemMessage(hWnd, IDC_TAB1_Class, CB_GETCURSEL, 0, 0);

    for(int i=0; i < sizeof values / sizeof values[0]; i++)
    {
        *values[i].val = GetDlgItemInt(hWnd, values[i].id, NULL, FALSE);
    }

    fc.Header.level = GetDlgItemInt(hWnd, IDC_TAB1_Level, NULL, FALSE);

    if (IsDlgButtonChecked(hWnd, IDC_TAB1_Hardcore) == BST_CHECKED)
        fc.Header.hardcore |= 0x04;
    else
        fc.Header.hardcore &= 0x04 ^ 0xFF;

    if (IsDlgButtonChecked(hWnd, IDC_TAB1_Dead) == BST_CHECKED)
        fc.Header.hardcore |= 0x08;
    else
        fc.Header.hardcore &= 0x08 ^ 0xFF;

    fc.Header.diff &= 0x0C;

    switch((int)SendDlgItemMessage(hWnd, IDC_TAB1_Difficulty, CB_GETCURSEL, 0, 0))
    {
    case 0:
        fc.Header.diff |= 0x00;
        break;
    case 1:
        fc.Header.diff |= 0x04;
        break;
    case 2:
        fc.Header.diff |= 0x08;
        break;
    case 3:
        fc.Header.diff |= 0x0C;
        break;
    }

    int startingtown = (BYTE)SendDlgItemMessage(hWnd, IDC_TAB1_StartTown, CB_GETCURSEL, 0, 0);
    if (startingtown >= 0 && startingtown <= 3)
        fc.Header.startingtown = (fc.Header.startingtown & 0xF0) | (StartTowns[startingtown].value & 0x0F);

    if (hToolTip)
        DestroyWindow(hToolTip);
}
return false;
}
return false;
}
}

DWORD experiencelevels[100] =
{
    0,
    500,
    1500,
    3750,
    7875,
    14175,
    22680,
    32886,
    44396,
    57715,

```

72144,
90180,
112725,
140906,
176132,
220165,
275207,
344008,
430010,
537513,
671891,
839864,
1049830,
1312287,
1640359,
2050449,
2563061,
3203826,
3902260,
4663553,
5493363,
6397855,
7383752,
8458379,
9629723,
10906488,
12298162,
13815086,
15468534,
17270791,
19235252,
21376515,
23710491,
26254525,
29027522,
32050088,
35344686,
38935798,
42850109,
47116709,
51767302,
56836449,
62361819,
68384473,
74949165,
82104680,
89904191,
98405658,
107672256,
117772849,
128782495,
140783010,
153863570,
168121381,
183662396,
200602101,
219066380,
239192444,
261129853,
285041630,
311105466,
339515048,
370481492,
404234916,
441026148,
481128591,
524840254,
572485967,
624419793,
681027665,
742730244,
809986056,
883294891,
963201521,
1050299747,
1145236814,
1248718217,
1361512946,
1484459201,

```
1618470619,  
1764543065,  
1923762030,  
2097310703,  
2286478756,  
2492671933,  
2717422497,  
2962400612,  
3229426756,  
3520485254,  
4000000000  
};  
  
int goldstash[10] =  
{ 50000,100000,150000,200000,250000,300000,350000,400000,450000,500000 };
```

```

// Tab2.cpp from D2E

#include "JamellaD2E.h"

// Tab2 Controls
HWND hQuality;
// ItemTree
HWND hTV;
HIMAGELIST hTVImagelist = 0;

// Inventory Parts
HWND hInv,hStash,hBelt,hCube,hBody,hCopyBuffer,hLoad,hSave;
RECT rCube,rBelt,rStash;

inline ContainerFromHWND(HWND hWnd)
{
    if (hWnd == hInv) return CNT_INVENTORY;
    if (hWnd == hStash) return CNT_STASH;
    if (hWnd == hBelt) return CNT_BELT;
    if (hWnd == hCube) return CNT_CUBE;
    if (hWnd == hBody) return CNT_BODY;
    if (hWnd == hCopyBuffer) return CNT_COPYBUFFER;
    return CNT_NONE;
}

HBITMAP hItemUnknown;
HBITMAP hBmpBodyWhole,hBmpNotPlaceable;
HCURSOR hCurMove,hCurMoveCopy,hCurCross,hCurNo;
HBRUSH hBrushBlack,hBrushNull;
HPEN hPenWhite,hPenGreen,hPenBusy,hPenUnwearable;

class Item* SelItem;
class Item* CopyBuffer = 0;

static UINT ClipboardFormat,ClipboardFormatJohnDoe;
static HGLOBAL ClipboardData,ClipboardDataJohnDoe;

bool MouseButtonDown = false;
bool MouseButtonMoved = false;
int xStartPos,yStartPos;
int xDragTol,yDragTol;
bool TVMouseDrag = false;

void MakeSelection(Item *i);
bool SelItemDeleteable();

// Item Context Menu Entries
#define IDR_TAB2_Delete 50000
#define IDR_TAB2_Socketed 50001
#define IDR_TAB2_Identified 50002
#define IDR_TAB2_Starter 50003
#define IDR_TAB2_SetQuantity 50004
#define IDR_TAB2_SetQuality 50005
#define IDR_TAB2_SetDurability 50006
#define IDR_TAB2_SetDefense 50007
#define IDR_TAB2_SetQualityCrude 50008
#define IDR_TAB2_SetQualityRegular 50009
#define IDR_TAB2_SetQualitySuperior 50010
#define IDR_TAB2_SetQualityMagical 50011
#define IDR_TAB2_SetQualityRare 50012
#define IDR_TAB2_SetQualitySet 50013
#define IDR_TAB2_SetQualityUnique 50014
#define IDR_TAB2_AttributeSelect 50015
#define IDR_TAB2_GemsEdit 50016
#define IDR_TAB2_SetEarProperties 50017
#define IDR_TAB2_ChangeRingImage 50018
#define IDR_TAB2_ChangeAmuletImage 50019
#define IDR_TAB2_Cut 50020
#define IDR_TAB2_Copy 50021
#define IDR_TAB2_Paste 50022

#pragma pack(1)

struct JamClipboardHead
{
    WORD IID;
    BYTE xSize;
    BYTE ySize;
    BYTE BodyPlace;

```

```

};

#pragma pack(4)

void LoadItemTree()
{
    TV_ITEM TVItem;
    TV_INSERTSTRUCT TVInsert;
    HTREEITEM hPrevBranches[5];
    hPrevBranches[0] = TVI_ROOT;

    for(int z1=0;z1<nItemTree;z1++)
    {
        ZeroMemory(&TVItem,sizeof TVItem);
        TVItem.mask = TVIF_TEXT | TVIF_PARAM;
        TVItem.pszText = ItemTree[z1].Text;
        TVItem.lParam = (LPARAM)-1;

        TVInsert.hParent = hPrevBranches[ItemTree[z1].Depth-1];
        TVInsert.hInsertAfter = TVI_LAST;
        TVInsert.item = TVItem;

        hPrevBranches[ItemTree[z1].Depth] =
        ItemTree[z1].hTree =
            TreeView_InsertItem(hTV,&TVInsert);

        for(int z2=0;z2<nItemInfos;z2++)
        {
            if (ItemInfos[z2].TreeID != ItemTree[z1].TreeID) continue;

            ZeroMemory(&TVItem,sizeof TVItem);
            TVItem.mask = TVIF_TEXT | TVIF_PARAM;
            TVItem.pszText = ItemInfos[z2].ItemName;
            TVItem.lParam = z2;

            TVInsert.hParent = hPrevBranches[ItemTree[z1].Depth];
            TVInsert.hInsertAfter = TVI_LAST;
            TVInsert.item = TVItem;

            ItemInfos[z2].hTree = TreeView_InsertItem(hTV,&TVInsert);
        }
    }
}

void MakeEmptyBelt(int Column=-1)
{
    // Delete Items in Belt
    for(Item *I = Items;I != 0;)
    {
        if (I->Container() == CNT_BELT)
        {
            Item *J = I->Next();
            if (Column < 0 || I->xPos() == Column) {
                I->Delete();
            }
            I = J;
        }
        else
        {
            I = I->Next();
        }
    }
}

LRESULT CALLBACK QuantityDialogProc(HWND hWnd,UINT uMsg,WPARAM wParam,LPARAM lParam)
{
    switch(uMsg)
    {
        case WM_INITDIALOG:
        {
            sprintf(buffer,"%i Max",SelItem->Info->Quantity);
            SetDlgItemText(hWnd,IDC_TAB2Quantity_Max,buffer);
            SetDlgItemInt(hWnd,IDC_TAB2Quantity_Set,SelItem->Quantity(),TRUE);
        }
        return true;
        case WM_COMMAND:
            switch (LOWORD(wParam))
            {
                case IDOK: {

```



```

        BOOL nOK;
        int x = GetDlgItemInt(hWnd, IDC_TAB2Quantity_Set, &nOK, TRUE);
        if (nOK && x > 0 && (x <= 255 || RegOptions.ExceedQuantity))
        {
            SelItem->SetQuantity(x);
            EndDialog(hWnd, 0);
        }
        else
            MessageBeep(MB_ICONHAND);
        return true;
    }
    case IDCANCEL:
        EndDialog(hWnd, 0);
        return true;
    }
    break;
}
return false;
}
LRESULT CALLBACK DurabilityDialogProc(HWND hWnd, UINT uMsg, WPARAM wParam, LPARAM lParam)
{
    switch(uMsg)
    {
        case WM_INITDIALOG:
            {
                SetDlgItemInt(hWnd, IDC_TAB2Durability_Set, SelItem->Durability(), TRUE);
                SetDlgItemInt(hWnd, IDC_TAB2Durability_Max, SelItem->DurabilityMax(), TRUE);
            }
            return true;
        case WM_COMMAND:
            switch (LOWORD(wParam))
            {
                case IDOK: {
                    BOOL nOK1, nOK2;
                    int Is = GetDlgItemInt(hWnd, IDC_TAB2Durability_Set, &nOK1, TRUE);
                    int Max = GetDlgItemInt(hWnd, IDC_TAB2Durability_Max, &nOK2, TRUE);
                    if (nOK1 && nOK2 && Is > 0 && Max > 0 && Is <= 255 && Max <= 255 && Is <= Max)
                    {
                        SelItem->SetDurabilityMax(Max);
                        SelItem->SetDurability(Is);
                        EndDialog(hWnd, 0);
                    }
                    else
                        MessageBeep(MB_ICONHAND);
                    return true;
                }
                case IDCANCEL:
                    EndDialog(hWnd, 0);
                    return true;
            }
            break;
    }
    return false;
}

static DWORD WINAPI DefenseAttack(LPVOID ThreadParameters)
{
    DefenseSearchThread *P = (DefenseSearchThread *)ThreadParameters;
    P->Advanced = false;

    P->Dialog = CreateDialogParam(hInstance, MAKEINTRESOURCE(IDD_TAB2SS), hMainDialog, (DLGPROC) Tab2SearchDialogProc, (LPARAM) P);
    if (!P->Dialog) return -1;

    Item* I = P->Item;
    I->Busy = true;

    while(!CheckPollMessages())
    {
        I->SetDWA(I->DWA() + 1);
        P->Counter++;

        if (I->BaseDefense() == P->SelectAC)
            break;
    }

    MessageBeep(MB_ICONASTERISK);
    I->Busy = false;
    EndDialog(P->Dialog, 0);
}

```

```

UpdateTab2();

CloseHandle(P->Thread);
GlobalFree(P->ThreadData);
return 0;
}

LRESULT CALLBACK DefenseDialogProc(HWND hWnd,UINT uMsg,WPARAM wParam,LPARAM lParam)
{
    switch(uMsg)
    {
    case WM_INITDIALOG:
        {
            sprintf(buffer,"Range %i to %i",SelItem->Info->ACMin,SelItem->Info->ACMax-1);
            SetDlgItemText(hWnd,IDC_TAB2Defense_Range,buffer);
            SetDlgItemInt(hWnd,IDC_TAB2Defense_Value,SelItem->BaseDefense(),TRUE);
        }
        return true;
    case WM_COMMAND:
        switch (LOWORD(wParam))
        {
        case IDOK: {
            BOOL nOK;
            int Val = GetDlgItemInt(hWnd,IDC_TAB2Defense_Value,&nOK,TRUE);

            if (nOK && SelItem->Info->ACMin <= Val && Val <= SelItem->Info->ACMax-1)
            {
                SelItem->DWBHistory.StepAdd(SelItem);

                HGLOBAL TD = GlobalAlloc(GMEM_ZEROINIT,sizeof DefenseSearchThread);
                struct DefenseSearchThread* NewThread = (DefenseSearchThread*)GlobalLock(TD);;
                NewThread->ThreadData = TD;

                NewThread->Item = SelItem;
                NewThread->SelectAC = Val;

                DWORD ThreadID;
                NewThread->Thread = CreateThread(NULL,0,&DefenseAttack,NewThread,0,&ThreadID);

                EndDialog(hWnd,0);
            }
            else
                MessageBeep(MB_ICONHAND);
            return true;
        }
        case IDCANCEL:
            EndDialog(hWnd,0);
            return true;
        }
        break;
    }
    return false;
}

LRESULT CALLBACK EarDialogProc(HWND hWnd,UINT uMsg,WPARAM wParam,LPARAM lParam)
{
    switch(uMsg)
    {
    case WM_INITDIALOG:
        {
            // Set Name
            SetDlgItemText(hWnd,IDC_TAB2Ear_Name,SelItem->OpponentName());

            // Fill and set character class
            SendDlgItemMessage(hWnd,IDC_TAB2Ear_Class,CB_RESETCONTENT,0,0);
            for (int i=0;i<5;i++)
                SendDlgItemMessage(hWnd,IDC_TAB2Ear_Class,CB_ADDSTRING,0,(LPARAM) CharClasses[i]);
            SendDlgItemMessage(hWnd,IDC_TAB2Ear_Class,CB_SETCURSEL,SelItem->OpponentClass(),0);

            // Set Level
            SetDlgItemInt(hWnd,IDC_TAB2Ear_Level,SelItem->OpponentLevel(),FALSE);
        }
        return true;
    case WM_COMMAND:
        switch (LOWORD(wParam))
        {
        case IDOK: {
            GetDlgItemText(hWnd,IDC_TAB2Ear_Name,buffer,32);
            SelItem->SetOpponentName(buffer);
            SelItem->SetOpponentClass( SendDlgItemMessage(hWnd,IDC_TAB2Ear_Class,CB_GETCURSEL,0,0) );
        }
        }
    }
}

```

```

        SelItem->SetOpponentLevel( GetDlgItemInt(hWnd, IDC_TAB2Ear_Level, NULL, FALSE) );

        EndDialog(hWnd, 0);
        return true;
    }
    case IDCANCEL:
        EndDialog(hWnd, 0);
        return true;
    }
    break;
}
return false;
}

static DWORD WINAPI RingAmuletAttack(LPVOID ThreadParameters)
{
    RingAmuletSearchThread *P = (RingAmuletSearchThread *)ThreadParameters;
    P->Advanced = false;

    P->Dialog = CreateDialogParam(hInstance, MAKEINTRESOURCE(IDD_TAB2SS), hMainDialog, (DLGPROC) Tab2SearchDialogProc, (LPARAM) P);
    if (!P->Dialog) return -1;

    Item* I = P->Item;
    I->Busy = true;

    while(!CheckPollMessages())
    {
        I->SetDWA(I->DWA() + 1);
        P->Counter++;

        if (P->RingAmulet == false) {
            if ( (I->DWARandomOffset(1) % 5) == P->Image)
                break;
        }
        else {
            if ( (I->DWARandomOffset(1) % 3) == P->Image)
                break;
        }
    }

    MessageBeep(MB_ICONASTERISK);
    I->Busy = false;
    I->Info = 0;

    EndDialog(P->Dialog, IDOK);
    InvalidateRect(hTabDialog, NULL, FALSE);

    UpdateTab2();

    CloseHandle(P->Thread);
    GlobalFree(P->ThreadData);
    return 0;
}

LRESULT CALLBACK RingImageDialogProc(HWND hWnd, UINT uMsg, WPARAM wParam, LPARAM lParam)
{
    switch(uMsg)
    {
        case WM_INITDIALOG:
        {
            // Fill in Images
            for (int z=0; z<5; z++)
                SendDlgItemMessage(hWnd, IDC_TAB2RingImage_Image1+z, BM_SETIMAGE, IMAGE_BITMAP, (LPARAM) RingImages[z].hBmp);

            int x = SelItem->DWARandomOffset(1) % 5;

            CheckRadioButton(hWnd, IDC_TAB2RingImage_Image1, IDC_TAB2RingImage_Image5, IDC_TAB2RingImage_Image1+x);
        }
        return true;
    case WM_COMMAND:
        switch (LOWORD(wParam))
        {
            case IDOK: {
                int s = -1;
                for(int z=0; z<5; z++) {
                    if (IsDlgButtonChecked(hWnd, IDC_TAB2RingImage_Image1+z) == BST_CHECKED)

```

```

        s = z;
    }

    if (s < 0)
        EndDialog(hWnd, IDOK);

    SelItem->DWBHistory.StepAdd(SelItem);

    HGLOBAL TD = GlobalAlloc(GMEM_ZEROINIT, sizeof RingAmuletSearchThread);
    struct RingAmuletSearchThread* NewThread = (RingAmuletSearchThread*)GlobalLock(TD);
    NewThread->ThreadData = TD;

    NewThread->Item = SelItem;
    NewThread->RingAmulet = false;
    NewThread->Image = s;

    DWORD ThreadID;
    NewThread->Thread = CreateThread(NULL, 0, &RingAmuletAttack, NewThread, 0, &ThreadID);

    EndDialog(hWnd, IDOK);
}
case IDCANCEL:
    EndDialog(hWnd, 0);
    return true;
}
break;
}
return false;
}
LRESULT CALLBACK AmuletImageDialogProc(HWND hWnd, UINT uMsg, WPARAM wParam, LPARAM lParam)
{
    switch(uMsg)
    {
    case WM_INITDIALOG:
        {
            // Fill in Images
            for (int z=0; z<3; z++)
                SendDlgItemMessage(hWnd, IDC_TAB2AmuletImage_Image1+z, BM_SETIMAGE, IMAGE_BITMAP, (LPARAM) AmuletImages[z].h
Bmp);

            int x = SelItem->DWARandomOffset(1) % 3;

            CheckRadioButton(hWnd, IDC_TAB2AmuletImage_Image1, IDC_TAB2AmuletImage_Image3,
                IDC_TAB2AmuletImage_Image1+x);
        }
        return true;
    case WM_COMMAND:
        switch (LOWORD(wParam))
        {
        case IDOK: {
            int s = -1;
            for(int z=0; z<3; z++) {
                if (IsDlgButtonChecked(hWnd, IDC_TAB2AmuletImage_Image1+z) == BST_CHECKED)
                    s = z;
            }

            if (s < 0)
                EndDialog(hWnd, IDOK);

            SelItem->DWBHistory.StepAdd(SelItem);

            HGLOBAL TD = GlobalAlloc(GMEM_ZEROINIT, sizeof RingAmuletSearchThread);
            struct RingAmuletSearchThread* NewThread = (RingAmuletSearchThread*)GlobalLock(TD);
            NewThread->ThreadData = TD;

            NewThread->Item = SelItem;
            NewThread->RingAmulet = true;
            NewThread->Image = s;

            DWORD ThreadID;
            NewThread->Thread = CreateThread(NULL, 0, &RingAmuletAttack, NewThread, 0, &ThreadID);

            EndDialog(hWnd, IDOK);
        }
        case IDCANCEL:
            EndDialog(hWnd, 0);
            return true;
        }
    }
    break;
}

```

```

    }
    return false;
}

bool SaveToClipboard(Item *I)
{
    if (!OpenClipboard(hMainDialog))
        return false;

    if (!EmptyClipboard())
        return false;

    Item *G = 0;

    // Jamella Clipboard Format
    {
        if (ClipBoardData)
            GlobalFree(ClipBoardData);

        int ClipSize = I->ItemRecordLength();

        for(Item *G = I->Gems;G != 0;G = G->Next())
            ClipSize += G->ItemRecordLength();

        ClipSize += sizeof (JamClipboardHead);

        ClipBoardData = GlobalAlloc(GMEM_MOVEABLE | GMEM_ZEROINIT,ClipSize);
        BYTE *Clip = (BYTE*)GlobalLock(ClipBoardData);

        struct JamClipboardHead *JamHead = (JamClipboardHead*) Clip;
        JamHead->IID = I->ItemRecordID();
        JamHead->xSize = I->xSize();
        JamHead->ySize = I->ySize();
        JamHead->BodyPlace = I->BodyPlace();

        int o = sizeof (JamClipboardHead);

        memcpy(Clip+o,I->GetItemRecord(),I->ItemRecordLength());
        o += I->ItemRecordLength();

        for(G = I->Gems;G != 0;G = G->Next())
        {
            memcpy(Clip+o,G->GetItemRecord(),G->ItemRecordLength());
            o += G->ItemRecordLength();
        }

        GlobalUnlock(ClipBoardData);

        SetClipboardData(ClipBoardFormat,ClipBoardData);
    }

    if (I->ItemRecordID() == IT_103)
    {
        // John Doe Clipboard Format
        if (ClipBoardDataJohnDoe)
            GlobalFree(ClipBoardDataJohnDoe);

        int ClipSize = I->ItemRecordLength();

        for(G = I->Gems;G != 0;G = G->Next())
            ClipSize += G->ItemRecordLength();

        ClipSize += 4;

        ClipBoardDataJohnDoe = GlobalAlloc(GMEM_MOVEABLE | GMEM_ZEROINIT,ClipSize);
        BYTE *Clip = (BYTE*)GlobalLock(ClipBoardDataJohnDoe);

        *(DWORD*)Clip = I->Gems->Count();

        int o = 4;
        memcpy(Clip+o,I->GetItemRecord(),I->ItemRecordLength());
        o += I->ItemRecordLength();

        for(G = I->Gems;G != 0;G = G->Next())
        {
            memcpy(Clip+o,G->GetItemRecord(),G->ItemRecordLength());
            o += G->ItemRecordLength();
        }
    }
}

```

```

GlobalUnlock(ClipBoardDataJohnDoe);

SetClipboardData(ClipBoardFormatJohnDoe,ClipBoardDataJohnDoe);
}

CloseClipboard();
return true;
}

static struct
{
    int    code;
    char*  text;
    int    index;
}
Qualities[] =
{
    { CRUDEITEM,  "Crude" },
    { USUALITEM,  "Regular" },
    { SUPERIORITEM, "Superior" },
    { MAGICITEM,  "Magical" },
    { SETITEM,    "Set Item" },
    { RAREITEM,   "Rare Item" },
    { UNIQUEITEM, "Unique Item" }
};

bool FindCube();

LRESULT CALLBACK ProcessItemMessage(HWND hWnd,WPARAM wParam,LPARAM lParam)
{
    switch(LOWORD(wParam))
    {
        // Item Context Menu
        case IDR_TAB2_Delete:
            {
                if (MouseButtonDown) break;
                if (!SelItem) break;
                if (SelItem->Busy) break;

                if (SelItemDeleteable())
                {
                    if (SelItem == CopyBuffer)
                    {
                        delete CopyBuffer;
                        CopyBuffer = 0;
                    }
                    else
                    {
                        SelItem->Delete();
                    }
                    MakeSelection(0);
                }
            }
            break;
        case IDR_TAB2_Copy:
            {
                if (!SelItem || SelItem->Busy) break;
                SaveToClipboard(SelItem);
            }
            break;
        case IDR_TAB2_Cut:
            {
                if (!SelItem || SelItem->Busy) break;
                SaveToClipboard(SelItem);

                if (SelItemDeleteable()) {
                    if (SelItem == CopyBuffer) {
                        delete CopyBuffer;
                        CopyBuffer = 0;
                    }
                    else {
                        SelItem->Delete();
                    }
                    MakeSelection(0);
                }
            }
            break;
        case IDR_TAB2_Socketed:

```

```

if (SelItem->Socketed() || SelItem->Socketable() || RegOptions.AllItemsSocketable)
{
    if (SelItem->Socketed()) {
        SelItem->SetSocketed(false);
        SelItem->SetGemNum(0);
        if (SelItem->Gems) {
            delete SelItem->Gems;
            SelItem->Gems = 0;
        }
    }
    else
        SelItem->SetSocketed(true);
    UpdateTab2();
}
break;
case IDR_TAB2_Identified:
{
    if (SelItem->Identified())
        SelItem->SetIdentified(false);
    else
        SelItem->SetIdentified(true);
    UpdateTab2();
}
break;
case IDR_TAB2_Starter:
{
    if (SelItem->Starter())
        SelItem->SetStarter(false);
    else
        SelItem->SetStarter(true);
    UpdateTab2();
}
break;
case IDR_TAB2_SetQuantity:
{
    DialogBox(hInstance,MAKEINTRESOURCE(IDD_TAB2Quantity),hWnd,(DLGPROC) QuantityDialogProc);
    UpdateTab2();
}
break;
case IDR_TAB2_SetDurability:
{
    DialogBox(hInstance,MAKEINTRESOURCE(IDD_TAB2Durability),hWnd,(DLGPROC) DurabilityDialogProc);
    UpdateTab2();
}
break;
case IDR_TAB2_SetDefense:
{
    DialogBox(hInstance,MAKEINTRESOURCE(IDD_TAB2Defense),hWnd,(DLGPROC) DefenseDialogProc);
    UpdateTab2();
}
break;

case IDR_TAB2_SetQualityCrude:
SelItem->SetQuality(CRUDEITEM);
UpdateTab2();
InvalidateRect(hTabDialog,NULL,FALSE);
break;
case IDR_TAB2_SetQualityRegular:
SelItem->SetQuality(USUALITEM);
UpdateTab2();
InvalidateRect(hTabDialog,NULL,FALSE);
break;
case IDR_TAB2_SetQualitySuperior:
SelItem->SetQuality(SUPERIORITEM);
UpdateTab2();
InvalidateRect(hTabDialog,NULL,FALSE);
break;
case IDR_TAB2_SetQualityMagical:
SelItem->SetQuality(MAGICITEM);
UpdateTab2();
InvalidateRect(hTabDialog,NULL,FALSE);
break;
case IDR_TAB2_SetQualityRare:
SelItem->SetQuality(RAREITEM);
UpdateTab2();
InvalidateRect(hTabDialog,NULL,FALSE);
break;
case IDR_TAB2_SetQualitySet:
SelItem->SetQuality(SETITEM);

```

```

UpdateTab2();
InvalidateRect(hTabDialog, NULL, FALSE);
break;
case IDR_TAB2_SetQualityUnique:
SelItem->SetQuality(UNIQUEITEM);
UpdateTab2();
InvalidateRect(hTabDialog, NULL, FALSE);
break;

case IDR_TAB2_AttributeSelect:
if (SelItem->Quality() == MAGICITEM)
{
    DialogBox(hInstance, MAKEINTRESOURCE(IDD_TAB2Magic), hTabDialog, (DLGPROC) Tab2MagicDialogProc);
    SelItem->Decoded = 0;
    UpdateTab2();
}
else if (SelItem->Quality() == RAREITEM)
{
    DialogBox(hInstance, MAKEINTRESOURCE(IDD_TAB2Rare), hTabDialog, (DLGPROC) Tab2RareDialogProc);
    SelItem->Decoded = 0;
    UpdateTab2();
}
break;
case IDR_TAB2_GemsEdit:
{
    if (!SelItem->Socketed()) break;

    if (SelItem->Quality() == MAGICITEM || SelItem->Quality() == RAREITEM && RegOptions.NoAnnoyingMsgs)
    {
        MessageBox(hWnd, "WARNING:\nSocketed magical or rare items cannot be created in the game, they are truly
hacked!\nBlizzard may bring out a blocking patch one day!", PROGRAMNAME, MB_OK | MB_ICONHAND);
    }

    if (SelItem->Info->Sockets == 0 || RegOptions.A7Gems) {
        DialogBox(hInstance, MAKEINTRESOURCE(IDD_TAB2Gems7), hTabDialog, (DLGPROC) Tab2GemsDialogProc);
    }
    else if (SelItem->Info->Sockets == 1) {
        DialogBox(hInstance, MAKEINTRESOURCE(IDD_TAB2Gems1), hTabDialog, (DLGPROC) Tab2GemsDialogProc);
    }
    else if (SelItem->Info->Sockets == 2) {
        DialogBox(hInstance, MAKEINTRESOURCE(IDD_TAB2Gems2), hTabDialog, (DLGPROC) Tab2GemsDialogProc);
    }
    else if (SelItem->Info->Sockets == 3) {
        DialogBox(hInstance, MAKEINTRESOURCE(IDD_TAB2Gems3), hTabDialog, (DLGPROC) Tab2GemsDialogProc);
    }

    SelItem->Decoded = 0;
    UpdateTab2();
}
break;
case IDR_TAB2_SetEarProperties:
{
    DialogBox(hInstance, MAKEINTRESOURCE(IDD_TAB2Ear), hTabDialog, (DLGPROC) EarDialogProc);
    SelItem->Decoded = 0;
    UpdateTab2();
}
break;
case IDR_TAB2_ChangeRingImage:
{
    DialogBox(hInstance, MAKEINTRESOURCE(IDD_TAB2RingImage), hTabDialog, (DLGPROC) RingImageDialogProc);
    SelItem->Info = 0;
    UpdateTab2();
    InvalidateRect(hTabDialog, NULL, FALSE);
}
break;
case IDR_TAB2_ChangeAmuletImage:
{
    DialogBox(hInstance, MAKEINTRESOURCE(IDD_TAB2AmuletImage), hTabDialog, (DLGPROC) AmuletImageDialogProc);
    SelItem->Info = 0;
    UpdateTab2();
    InvalidateRect(hTabDialog, NULL, FALSE);
}
break;
}
return true;
}

```

```

LRESULT CALLBACK Tab2DialogProc(HWND hWnd, UINT uMsg, WPARAM wParam, LPARAM lParam)
{

```



```

switch(uMsg)
{
case WM_INITDIALOG:
    {
        // Set up ItemTree
        hTV = GetDlgItem(hWnd, IDC_TAB2_ItemTree);
        LoadItemTree();

        hBody = GetDlgItem(hWnd, IDC_TAB2_Body);
        hInv = GetDlgItem(hWnd, IDC_TAB2_Inv);
    #if INVGRIDS == 0
        hStash = GetDlgItem(hWnd, IDC_TAB2_Stash);
        hBelt = GetDlgItem(hWnd, IDC_TAB2_Belt);
        hCube = GetDlgItem(hWnd, IDC_TAB2_Cube);
    #endif

        hCopyBuffer = GetDlgItem(hWnd, IDC_TAB2_CopyBuffer);
        hLoad = GetDlgItem(hWnd, IDC_TAB2_Load);
        hSave = GetDlgItem(hWnd, IDC_TAB2_Save);

        SetWindowLong(hBody,    GWL_WNDPROC, (LONG) Tab2InventoryProc);
        SetWindowLong(hInv,    GWL_WNDPROC, (LONG) Tab2InventoryProc);
    #if INVGRIDS == 0
        SetWindowLong(hStash,  GWL_WNDPROC, (LONG) Tab2InventoryProc);
        SetWindowLong(hBelt,   GWL_WNDPROC, (LONG) Tab2InventoryProc);
        SetWindowLong(hCube,   GWL_WNDPROC, (LONG) Tab2InventoryProc);
    #endif

        SetWindowLong(hCopyBuffer, GWL_WNDPROC, (LONG) Tab2InventoryProc);

        EnableWindow(GetDlgItem(hWnd, IDC_TAB2_AttrRandom), FALSE);

        SelItem = 0;

        xDragTol = GetSystemMetrics(SM_CXDRAG);
        yDragTol = GetSystemMetrics(SM_CYDRAG);

        hExpertBox = 0;
        CheckDlgButton(hWnd, IDC_TAB2_ExpertMode, BST_UNCHECKED);

        SendDlgItemMessage(hWnd, IDC_TAB2_RichText, EM_SETBKGNDCOLOR, FALSE, GetSysColor(COLOR_BINFACE));

        hToolTip = CreateToolTipCtrl(hWnd, IDD_TAB2, true);

        ClipboardFormat = RegisterClipboardFormat(CLIPBOARDFORMAT);
        ClipboardFormatJohnDoe = RegisterClipboardFormat("Diablo2Item");
    }
    return true;
case WM_NOTIFY:
    switch(((LPNMHDR)lParam)->idFrom)
    {
    case IDC_TAB2_ItemTree:
        {
            NM_TREEVIEW* TreeView = (NM_TREEVIEW FAR *) lParam;
            switch(TreeView->hdr.code)
            {
            case TVN_SELCHANGING:
                if (SelItem)
                {
                    MakeSelection(0);
                }
                return false;
            case TVN_SELCHANGED:
                if (TreeView->itemNew.lParam >= 0 && TreeView->itemNew.lParam < nItemInfos)
                {
                    SelInfo = &ItemInfos[TreeView->itemNew.lParam];
                }
                return false;
            case TVN_BEGINDRAG:
                if (TreeView->itemNew.lParam >= 0 && TreeView->itemNew.lParam < nItemInfos)
                {
                    MakeSelection(0);
                    SelInfo = &ItemInfos[TreeView->itemNew.lParam];
                    SetCapture(hInv);
                    MouseButtonDown = true;
                    xStartPos = TreeView->ptDrag.x;
                    yStartPos = TreeView->ptDrag.y;
                    FindCube();
                }
                return false;
            }
        }
    }
}

```

```

    }
    break;
}
return true;
case WM_COMMAND:
{
    switch(LOWORD(wParam))
    {
    default:
        ProcessItemMessage(hWnd,wParam,lParam);
        break;
    // Batch Action Context Menu
    case IDR_TAB2_BeltEmpty:
        {
            MakeEmptyBelt();
            UpdateTab2();
            InvalidateRect(hTabDialog,NULL,FALSE);
        }
        break;
    case IDR_TAB2_BeltMinorHealing:
    case IDR_TAB2_BeltLightHealing:
    case IDR_TAB2_BeltHealing:
    case IDR_TAB2_BeltGreaterHealing:
    case IDR_TAB2_BeltSuperHealing:
    case IDR_TAB2_BeltMinorMana:
    case IDR_TAB2_BeltMana:
    case IDR_TAB2_BeltLightMana:
    case IDR_TAB2_BeltGreaterMana:
    case IDR_TAB2_BeltSuperMana:
    case IDR_TAB2_BeltRejuv:
    case IDR_TAB2_BeltFullRejuv:

    case IDR_TAB2_Slot1MinorHealing:
    case IDR_TAB2_Slot1LightHealing:
    case IDR_TAB2_Slot1Healing:
    case IDR_TAB2_Slot1GreaterHealing:
    case IDR_TAB2_Slot1SuperHealing:
    case IDR_TAB2_Slot1MinorMana:
    case IDR_TAB2_Slot1Mana:
    case IDR_TAB2_Slot1LightMana:
    case IDR_TAB2_Slot1GreaterMana:
    case IDR_TAB2_Slot1SuperMana:
    case IDR_TAB2_Slot1Rejuv:
    case IDR_TAB2_Slot1FullRejuv:

    case IDR_TAB2_Slot2MinorHealing:
    case IDR_TAB2_Slot2LightHealing:
    case IDR_TAB2_Slot2Healing:
    case IDR_TAB2_Slot2GreaterHealing:
    case IDR_TAB2_Slot2SuperHealing:
    case IDR_TAB2_Slot2MinorMana:
    case IDR_TAB2_Slot2Mana:
    case IDR_TAB2_Slot2LightMana:
    case IDR_TAB2_Slot2GreaterMana:
    case IDR_TAB2_Slot2SuperMana:
    case IDR_TAB2_Slot2Rejuv:
    case IDR_TAB2_Slot2FullRejuv:

    case IDR_TAB2_Slot3MinorHealing:
    case IDR_TAB2_Slot3LightHealing:
    case IDR_TAB2_Slot3Healing:
    case IDR_TAB2_Slot3GreaterHealing:
    case IDR_TAB2_Slot3SuperHealing:
    case IDR_TAB2_Slot3MinorMana:
    case IDR_TAB2_Slot3Mana:
    case IDR_TAB2_Slot3LightMana:
    case IDR_TAB2_Slot3GreaterMana:
    case IDR_TAB2_Slot3SuperMana:
    case IDR_TAB2_Slot3Rejuv:
    case IDR_TAB2_Slot3FullRejuv:

    case IDR_TAB2_Slot4MinorHealing:
    case IDR_TAB2_Slot4LightHealing:
    case IDR_TAB2_Slot4Healing:
    case IDR_TAB2_Slot4GreaterHealing:
    case IDR_TAB2_Slot4SuperHealing:
    case IDR_TAB2_Slot4MinorMana:
    case IDR_TAB2_Slot4Mana:
    case IDR_TAB2_Slot4LightMana:

```

```

case IDR_TAB2_Slot4GreaterMana:
case IDR_TAB2_Slot4SuperMana:
case IDR_TAB2_Slot4Rejuv:
case IDR_TAB2_Slot4FullRejuv:
{
    int IC;
    int Col;

    switch(LOWORD(wParam))
    {
    case IDR_TAB2_BeltMinorHealing:    IC = 0x15A0; Col = -1; break;
    case IDR_TAB2_BeltLightHealing:   IC = 0x15B0; Col = -1; break;
    case IDR_TAB2_BeltHealing:        IC = 0x15C0; Col = -1; break;
    case IDR_TAB2_BeltGreaterHealing: IC = 0x15D0; Col = -1; break;
    case IDR_TAB2_BeltSuperHealing:   IC = 0x15E0; Col = -1; break;
    case IDR_TAB2_BeltMinorMana:      IC = 0x15F0; Col = -1; break;
    case IDR_TAB2_BeltLightMana:      IC = 0x1600; Col = -1; break;
    case IDR_TAB2_BeltMana:           IC = 0x1610; Col = -1; break;
    case IDR_TAB2_BeltGreaterMana:    IC = 0x1620; Col = -1; break;
    case IDR_TAB2_BeltSuperMana:      IC = 0x1630; Col = -1; break;
    case IDR_TAB2_BeltRejuv:          IC = 0x1120; Col = -1; break;
    case IDR_TAB2_BeltFullRejuv:      IC = 0x1130; Col = -1; break;

    case IDR_TAB2_Slot1MinorHealing:  IC = 0x15A0; Col = 0; break;
    case IDR_TAB2_Slot1LightHealing:  IC = 0x15B0; Col = 0; break;
    case IDR_TAB2_Slot1Healing:       IC = 0x15C0; Col = 0; break;
    case IDR_TAB2_Slot1GreaterHealing:IC = 0x15D0; Col = 0; break;
    case IDR_TAB2_Slot1SuperHealing:  IC = 0x15E0; Col = 0; break;
    case IDR_TAB2_Slot1MinorMana:     IC = 0x15F0; Col = 0; break;
    case IDR_TAB2_Slot1LightMana:     IC = 0x1600; Col = 0; break;
    case IDR_TAB2_Slot1Mana:          IC = 0x1610; Col = 0; break;
    case IDR_TAB2_Slot1GreaterMana:   IC = 0x1620; Col = 0; break;
    case IDR_TAB2_Slot1SuperMana:     IC = 0x1630; Col = 0; break;
    case IDR_TAB2_Slot1Rejuv:         IC = 0x1120; Col = 0; break;
    case IDR_TAB2_Slot1FullRejuv:     IC = 0x1130; Col = 0; break;

    case IDR_TAB2_Slot2MinorHealing:  IC = 0x15A0; Col = 1; break;
    case IDR_TAB2_Slot2LightHealing:  IC = 0x15B0; Col = 1; break;
    case IDR_TAB2_Slot2Healing:       IC = 0x15C0; Col = 1; break;
    case IDR_TAB2_Slot2GreaterHealing:IC = 0x15D0; Col = 1; break;
    case IDR_TAB2_Slot2SuperHealing:  IC = 0x15E0; Col = 1; break;
    case IDR_TAB2_Slot2MinorMana:     IC = 0x15F0; Col = 1; break;
    case IDR_TAB2_Slot2LightMana:     IC = 0x1600; Col = 1; break;
    case IDR_TAB2_Slot2Mana:          IC = 0x1610; Col = 1; break;
    case IDR_TAB2_Slot2GreaterMana:   IC = 0x1620; Col = 1; break;
    case IDR_TAB2_Slot2SuperMana:     IC = 0x1630; Col = 1; break;
    case IDR_TAB2_Slot2Rejuv:         IC = 0x1120; Col = 1; break;
    case IDR_TAB2_Slot2FullRejuv:     IC = 0x1130; Col = 1; break;

    case IDR_TAB2_Slot3MinorHealing:  IC = 0x15A0; Col = 2; break;
    case IDR_TAB2_Slot3LightHealing:  IC = 0x15B0; Col = 2; break;
    case IDR_TAB2_Slot3Healing:       IC = 0x15C0; Col = 2; break;
    case IDR_TAB2_Slot3GreaterHealing:IC = 0x15D0; Col = 2; break;
    case IDR_TAB2_Slot3SuperHealing:  IC = 0x15E0; Col = 2; break;
    case IDR_TAB2_Slot3MinorMana:     IC = 0x15F0; Col = 2; break;
    case IDR_TAB2_Slot3LightMana:     IC = 0x1600; Col = 2; break;
    case IDR_TAB2_Slot3Mana:          IC = 0x1610; Col = 2; break;
    case IDR_TAB2_Slot3GreaterMana:   IC = 0x1620; Col = 2; break;
    case IDR_TAB2_Slot3SuperMana:     IC = 0x1630; Col = 2; break;
    case IDR_TAB2_Slot3Rejuv:         IC = 0x1120; Col = 2; break;
    case IDR_TAB2_Slot3FullRejuv:     IC = 0x1130; Col = 2; break;

    case IDR_TAB2_Slot4MinorHealing:  IC = 0x15A0; Col = 3; break;
    case IDR_TAB2_Slot4LightHealing:  IC = 0x15B0; Col = 3; break;
    case IDR_TAB2_Slot4Healing:       IC = 0x15C0; Col = 3; break;
    case IDR_TAB2_Slot4GreaterHealing:IC = 0x15D0; Col = 3; break;
    case IDR_TAB2_Slot4SuperHealing:  IC = 0x15E0; Col = 3; break;
    case IDR_TAB2_Slot4MinorMana:     IC = 0x15F0; Col = 3; break;
    case IDR_TAB2_Slot4LightMana:     IC = 0x1600; Col = 3; break;
    case IDR_TAB2_Slot4Mana:          IC = 0x1610; Col = 3; break;
    case IDR_TAB2_Slot4GreaterMana:   IC = 0x1620; Col = 3; break;
    case IDR_TAB2_Slot4SuperMana:     IC = 0x1630; Col = 3; break;
    case IDR_TAB2_Slot4Rejuv:         IC = 0x1120; Col = 3; break;
    case IDR_TAB2_Slot4FullRejuv:     IC = 0x1130; Col = 3; break;

    default:                          IC = 0x0000; Col = -1; break;
    }
}

```

```
IC = FindItemInfoByItemCode(IC);
```

```

MakeEmptyBelt(Col);

if (Col < 0)
{
    for(int x=0;x<4;x++)
    {
        for(int y=0;y<4;y++)
        {
            Item *I = CreateItem(&Items,&ItemInfos[IC]);
            I->SetCoordinates(CNT_BELT,x,y);
        }
    }
}
else
{
    for(int y=0;y<4;y++)
    {
        Item *I = CreateItem(&Items,&ItemInfos[IC]);
        I->SetCoordinates(CNT_BELT,Col,y);
    }
}

UpdateTab2();
InvalidateRect(hTabDialog,NULL,FALSE);
}
break;
case IDR_TAB2_RepairAll:
{
    Item *I;
    // Repair all Items (Set Durability to MaxDurability)
    for(I = Items;I != 0;I = I->Next())
    {
        I->SetDurability(I->DurabilityMax());
    }
    UpdateTab2();
}
break;

// Save & Load Items into Load Buffer
case IDC_TAB2_Save:
    SaveItemFile(hWnd);
    InvalidateRect(hTabDialog,NULL,FALSE);
    break;
case IDC_TAB2_Load:
    LoadItemFile(hWnd);
    InvalidateRect(hTabDialog,NULL,FALSE);
    break;
case IDC_TAB2_AttrRandom:
    switch(HIWORD(wParam))
    {
    case BN_CLICKED:
        {
            if (SelItem)
            {
                SelItem->DWBHistory.StepAdd(SelItem);

                SelItem->SetMagicLevel((rand() % 100) + 1);
                SelItem->SetDWB(rand() + (rand() << 16));
                SelItem->Decoded = 0;
                UpdateTab2();
            }
        }
    }
    break;
}
break;
case IDC_TAB2_HistoryBack:
    if (HIWORD(wParam) == BN_CLICKED)
    {
        if (SelItem) {
            SelItem->DWBHistory.StepBack(SelItem);
            SelItem->Decoded = 0;
            UpdateTab2();
            InvalidateRect(hTabDialog,NULL,FALSE);
        }
    }
    break;
case IDC_TAB2_HistoryNext:
    if (HIWORD(wParam) == BN_CLICKED)

```

```

    {
        if (SelItem) {
            SelItem->DWBHistory.StepNext(SelItem);
            SelItem->Decoded = 0;
            UpdateTab2();
            InvalidateRect(hTabDialog, NULL, FALSE);
        }
    }
    break;
case IDC_TAB2_Batch:
    switch(HIWORD(wParam))
    {
        case BN_CLICKED:
            {
                HMENU hMenu = GetSubMenu(hBatchMenu, 1);

                POINT Pos;
                GetCursorPos(&Pos);

                TrackPopupMenu(hMenu, TPM_LEFTALIGN | TPM_LEFTBUTTON,
                    Pos.x, Pos.y, 0, hWnd, NULL);
            }
            break;
    }
    break;
case IDC_TAB2_ExpertMode:
    switch(HIWORD(wParam))
    {
        case BN_CLICKED:
            {
                if (IsDlgButtonChecked(hTabDialog, IDC_TAB2_ExpertMode))
                {
                    #if BUGGYMESSAGES == 1
                        MessageBox(hWnd, "You really shouldn't do this! One wrong number kills your character!", PROGR
AMNAME, MB_OK | MB_ICONSTOP | MB_APPLMODAL);
                    #endif

                    if (hExpertBox) {
                        DestroyWindow(hExpertBox);
                    }

                    hExpertBox = CreateDialog(hInstance, MAKEINTRESOURCE(IDD_TAB2E), hTabDialog, (DLGPROC)&Tab2EDIA
logProc);

                    UpdateTab2();
                }
                else
                {
                    SendMessage(hExpertBox, WM_CLOSE, 0, 0);
                }
            }
            break;
    }
    break;
#if INVGRIDS > 0
case IDC_TAB2_OpenCube:
    if (HIWORD(wParam) == BN_CLICKED)
    {
        if (hCube) {
            DestroyWindow(hCube);
        }
        else {
            CreateDialogParam(hInstance, MAKEINTRESOURCE(IDD_TAB2Grid), hTabDialog, (DLGPROC)&Tab2ExGridDialogP
roc, CNT_CUBE);
        }
    }
    break;
case IDC_TAB2_OpenBelt:
    if (HIWORD(wParam) == BN_CLICKED)
    {
        if (hBelt) {
            DestroyWindow(hBelt);
        }
        else {
            CreateDialogParam(hInstance, MAKEINTRESOURCE(IDD_TAB2Grid), hTabDialog, (DLGPROC)&Tab2ExGridDialogP
roc, CNT_BELT);
        }
    }
    break;
case IDC_TAB2_OpenStash:
    if (HIWORD(wParam) == BN_CLICKED)

```

```

        {
            if (hStash) {
                DestroyWindow(hStash);
            }
            else {
                CreateDialogParam(hInstance,MAKEINTRESOURCE(IDD_TAB2Grid),hTabDialog,(DLGPROC)&Tab2ExGridDialogP
roc,CNT_STASH);
            }
        }
        break;
#endif
    }
    return false;
case WM_VALIDATE:
    {
        for(Item *i = Items;i != 0;i = i->Next())
        {
            if (i->Busy)
            {
                ErrorBox("Search Treads still running!\nClose them first");
                return true;
            }
        }
        break;
    }
case WM_DESTROY:
    {
        if (hExpertBox) {
            SendMessage(hExpertBox,WM_CLOSE,0,0);
        }
    }
    return false;
}
return false;
}

#if INVGRIDS > 0
LRESULT CALLBACK Tab2ExGridDialogProc(HWND hWnd,UINT uMsg,WPARAM wParam,LPARAM lParam)
{
    switch(uMsg)
    {
        case WM_INITDIALOG:
            {
                RECT *r;

                if (lParam == CNT_CUBE)
                {
                    r = &rCube;
                    hCube = hWnd;

                    CheckDlgButton(hTabDialog, IDC_TAB2_OpenCube, BST_CHECKED);
                    SetWindowText(hWnd, "Cube Grid");

                    r->right = InvGrids.xCube * 28 + 1;
                    r->bottom = InvGrids.yCube * 28 + 1;
                }
                else if (lParam == CNT_BELT)
                {
                    r = &rBelt;
                    hBelt = hWnd;

                    CheckDlgButton(hTabDialog, IDC_TAB2_OpenBelt, BST_CHECKED);
                    SetWindowText(hWnd, "Belt Grid");

                    r->right = InvGrids.xBelt * 28 + 1;
                    r->bottom = InvGrids.yBelt * 28 + 1;
                }
                else if (lParam == CNT_STASH)
                {
                    r = &rStash;
                    hStash = hWnd;

                    CheckDlgButton(hTabDialog, IDC_TAB2_OpenStash, BST_CHECKED);
                    SetWindowText(hWnd, "Stash Grid");
                }
            }
    }
}

```

```

        r->right = InvGrids.xStash * 28 + 1;
        r->bottom = InvGrids.yStash * 28 + 1;
    }

    if (r->top)
    {
        SetWindowPos(hWnd,HWND_TOP,
            r->left,r->top,
            r->right,r->bottom,SWP_NOACTIVATE);
    }
    else
    {
        SetWindowPos(hWnd,HWND_TOP,
            r->left,r->top,
            r->right,r->bottom,SWP_NOMOVE | SWP_NOACTIVATE);
    }

    SetWindowLong(hWnd,GWL_USERDATA,lParam);

    ShowWindow(hWnd,SW_SHOWNOACTIVATE);
}
return true;
case WM_COMMAND:
{
    ProcessItemMessage(hWnd,wParam,lParam);
}
return false;
case WM_CLOSE:
    DestroyWindow(hWnd);
    return false;
case WM_DESTROY:
{
    switch(GetWindowLong(hWnd,GWL_USERDATA))
    {
        case CNT_CUBE:
            CheckDlgButton(hTabDialog, IDC_TAB2_OpenCube, BST_UNCHECKED);
            hCube = 0;
            GetWindowRect(hWnd,&rCube);
            break;
        case CNT_BELT:
            CheckDlgButton(hTabDialog, IDC_TAB2_OpenBelt, BST_UNCHECKED);
            hBelt = 0;
            GetWindowRect(hWnd,&rBelt);
            break;
        case CNT_STASH:
            CheckDlgButton(hTabDialog, IDC_TAB2_OpenStash, BST_UNCHECKED);
            hStash = 0;
            GetWindowRect(hWnd,&rStash);
            break;
    }
}
return false;
}
return false;
}

#endif

bool FoundCube = false;
bool FindCube()
{
    for(class Item *i = Items;i != 0;i = i->Next())
    {
        if (i->ItemCode() == 0x1340 || i->ItemCode() == ' xob')
        {
            FoundCube = true;
            return true;
        }
    }
    FoundCube = false;
    return false;
}

void DrawGrid(HDC hdc,int Container)
{
    int boxesX,boxesY;

    switch(Container)
    {

```

```

case CNT_INVENTORY:
    boxesX = InvGrids.xInventory;
    boxesY = InvGrids.yInventory;
    break;
case CNT_STASH:
    boxesX = InvGrids.xStash;
    boxesY = InvGrids.yStash;
    break;
case CNT_CUBE:
    boxesX = InvGrids.xCube;
    boxesY = FindCube() ? InvGrids.yCube : 0;
    break;
case CNT_BELT:
    boxesX = InvGrids.xBelt;
    boxesY = InvGrids.xBelt;
    break;
case CNT_COPYBUFFER:
    boxesX = 2;
    boxesY = 4;
}

SelectObject(hdc,hBrushBlack);
SelectObject(hdc,hPenWhite);

HDC hdcbitmap = CreateCompatibleDC(hdc);
SelectObject(hdcbitmap,hBmpNotPlaceable);

for(int y=3;y>=0;y--)
{
    for(int x=0;x<boxesX;x++)
    {
        Rectangle(hdc,x*29,y*29,x*29+30,y*29+30);
        if (y >= boxesY)
        {
            BitBlt(hdc,x*29+1,y*29+1,28,28,hdcbitmap,0,0,SRCCOPY);
        }
    }
}

DeleteDC(hdcbitmap);
}
inline void DrawItemFrames(HDC hdc,Item *i,int x,int y,int sx,int sy)
{
    if (!i->Info)
        i->FindInfo();
    if (!i->Decoded)
        i->Decode();

    if (SelItem == i)
    {
        // Draw Selection Box
        SelectObject(hdc,hBrushNull);
        SelectObject(hdc,SelItem->Busy ? hPenBusy : hPenGreen);
        Rectangle(hdc,x,y,x+sx+1,y+sy+1);
    }
    if (i && !i->isWearable())
    {
        // Draw Red Frame
        SelectObject(hdc,hBrushNull);
        SelectObject(hdc,hPenUnwearable);
        Rectangle(hdc,x+1,y+1,x+sx-1,y+sy-1);
    }
}
void DrawItem(HDC hdc,class Item *i)
{
    int x = i->xPixelPos() +2;
    int y = i->yPixelPos() +2;
    int sx = i->xPixelSize();
    int sy = i->yPixelSize();
    HBITMAP bmp = i->GetBitmap();

    HDC hdcbitmap = CreateCompatibleDC(hdc);
    SelectObject(hdcbitmap,bmp);
    BitBlt(hdc,x,y,sx,sy,hdcbitmap,0,0,SRCCOPY);
    DeleteDC(hdcbitmap);

    DrawItemFrames(hdc,i,x,y,sx,sy);
}
void DrawItemSimple(HDC hdc,class Item *i)

```



```

{
    int sx = i->xPixelSize();
    int sy = i->yPixelSize();
    HBITMAP bmp = i->GetBitmap();

    HDC hdcbitmap = CreateCompatibleDC(hdc);
    SelectObject(hdcbitmap,bmp);
    BitBlt(hdc,1,1,sx,sy,hdcbitmap,0,0,SRCCOPY);
    DeleteDC(hdcbitmap);

    DrawItemFrames(hdc,i,1,1,sx,sy);
}

#define BODY_POTION      0
#define BODY_HELM       1
#define BODY_AMULET     2
#define BODY_ARMOR      3
#define BODY_HANDR      4
#define BODY_HANDL      5
#define BODY_RINGR      6
#define BODY_RINGL      7
#define BODY_BELT       8
#define BODY_BOOTS      9
#define BODY_GLOVES     10

struct
{
    int    xOrig,yOrig;
    int    xSize,ySize;
    int    equalto;
}
BodyParts[] =
{
    { 0, 0, 0, 0, 0 }, // Nothing: Belt
    { 131, 2, 60, 60, 0 }, // Helm
    { 204, 31, 30, 30, 0 }, // Amulet
    { 131, 74, 60, 88, 0 }, // Armor
    { 16, 46, 60,115, 0 }, // Weapon R
    { 247, 46, 60,115, 0 }, // Weapon L
    { 90,176, 30, 30, 7 }, // Ring R
    { 204,176, 30, 30, 6 }, // Ring L
    { 132,176, 60, 30, 0 }, // Belt
    { 247,176, 60, 60, 0 }, // Boots
    { 16,176, 60, 60 ,0 } // Gloves
};
int BodyPartsNum = 10;

void DrawItemBody(HDC hdc,class Item *i)
{
    if (i->Container() != CNT_BODY) return;

    int c = i->BodyCode();
    if (c <= 0 || c > BodyPartsNum) return;

    int x = BodyParts[c].xOrig + (BodyParts[c].xSize - i->xPixelSize()) / 2;
    int y = BodyParts[c].yOrig + (BodyParts[c].ySize - i->yPixelSize()) / 2;
    int sx = i->xPixelSize();
    int sy = i->yPixelSize();
    HBITMAP bmp = i->GetBitmap();

    HDC hdcbitmap = CreateCompatibleDC(hdc);
    SelectObject(hdcbitmap,bmp);
    BitBlt(hdc,x,y,sx,sy,hdcbitmap,0,0,SRCCOPY);
    DeleteDC(hdcbitmap);

    DrawItemFrames(hdc,i,x,y,sx,sy);
}

void UpdateTab2()
{
    if (!SelItem)
    {
        RTFStreamSend(hTabDialog, IDC_TAB2_RichText, "");

        EnableWindow(GetDlgItem(hTabDialog, IDC_TAB2_AttrRandom), FALSE);

        if (hExpertBox)
            UpdateTab2E();
        return;
    }
}

```

```

}

if (!SelItem->Info) SelItem->FindInfo();
SelItem->Decode();

RTFStreamSend(hTabDialog, IDC_TAB2_RichText, SelItem->RichText());

if (SelItem->Quality() == MAGICITEM ||
    SelItem->Quality() == RAREITEM ||
    SelItem->Quality() == SETITEM ||
    SelItem->Quality() == UNIQUEITEM)
{
    EnableWindow(GetDlgItem(hTabDialog, IDC_TAB2_AttrRandom), TRUE);
    EnableWindow(GetDlgItem(hTabDialog, IDC_TAB2_HistoryBack), SelItem->DWBHistory.isBack());
    EnableWindow(GetDlgItem(hTabDialog, IDC_TAB2_HistoryNext), SelItem->DWBHistory.isNext());
}
else
{
    EnableWindow(GetDlgItem(hTabDialog, IDC_TAB2_AttrRandom), FALSE);
    EnableWindow(GetDlgItem(hTabDialog, IDC_TAB2_HistoryBack), FALSE);
    EnableWindow(GetDlgItem(hTabDialog, IDC_TAB2_HistoryNext), FALSE);
}

if (hExpertBox)
    UpdateTab2E();
}

void MakeSelection(class Item *i)
{
    SelItem = i;

    UpdateTab2();

    InvalidateRect(hTabDialog, NULL, FALSE);
}

Item *GetItemAtBodyPlace(int BodyPlace)
{
    for(Item *I = Items; I != 0; I = I->Next())
    {
        if (I->Container() != CNT_BODY)
            continue;

        if (I->BodyCode() != BodyPlace) continue;

        return I;
    }
    return 0;
}

bool ItemPlaceable(int Container, int xPos, int yPos, int xSize, int ySize, int BodyPlace)
{
    // First Sanity Check
    switch(Container)
    {
    case CNT_CUBE:
        // Is there a cube in the Inventory
        if (!FoundCube) return false;

        // Check if it's a Horadric Cube in a Horadric Cube
        if (SelItem)
            if (SelItem->ItemCode() == 0x1340 || SelItem->ItemCode() == 'xob') return false;
        else if (SelInfo)
            if (SelInfo->ItemCode == 0x1340) return false;

        break;
    case CNT_BELT:
        // Check if it's a different Item than a Potion
        if (BodyPlace != 0) return false;

        break;
    }

    // Coordinates Checker
    switch(Container)
    {
    default:
        return false;
    case CNT_BODY:

```

```

{
for(int z=1;z<=BodyPartsNum;z++)
{
if (xPos >= BodyParts[z].xOrig && xPos <= BodyParts[z].xOrig + BodyParts[z].xSize &&
yPos >= BodyParts[z].yOrig && yPos <= BodyParts[z].yOrig + BodyParts[z].ySize)
{
// Check if occupied
Item *O = GetItemAtBodyPlace(z);
if (O != 0 && O != SelItem) return false;

if (BodyPlace == BODY_RINGR && (z == BODY_RINGL || z == BODY_RINGR)) return true;
if ((BodyPlace == BODY_HANDR || BodyPlace == BODY_HANDL) && z == BODY_HANDL) {
O = GetItemAtBodyPlace(BODY_HANDR);
if (O && O->Info && O->Info->Hands > 1) return false;
else return true;
}
if ((BodyPlace == BODY_HANDR || BodyPlace == BODY_HANDL) && z == BODY_HANDR) {
O = GetItemAtBodyPlace(BODY_HANDL);
if (O && O->Info && O->Info->Hands > 1) return false;
else return true;
}
if (BodyPlace == z) return true;
return false;
}
}
return false;
}
return false;
case CNT_COPYBUFFER:
{
if (CopyBuffer)
return false;
else
return true;
}
case CNT_INVENTORY:
case CNT_STASH:
case CNT_CUBE:
case CNT_BELT:
{
xPos = (xPos-2) / 29;
yPos = (yPos-2) / 29;

if (Container == CNT_INVENTORY) {
if (xPos + xSize > InvGrids.xInventory) return false;
if (yPos + ySize > InvGrids.yInventory) return false;
}
else if (Container == CNT_STASH) {
if (xPos + xSize > InvGrids.xStash) return false;
if (yPos + ySize > InvGrids.yStash) return false;
}
else if (Container == CNT_CUBE) {
if (xPos + xSize > InvGrids.xCube) return false;
if (yPos + ySize > InvGrids.yCube) return false;
}
else if (Container == CNT_BELT) {
if (xPos + xSize > InvGrids.xBelt) return false;
if (yPos + ySize > InvGrids.yBelt) return false;
}
}

for(Item *I = Items;I != 0;I = I->Next())
{
if (!I->Info)
I->FindInfo();

if (I->Container() != Container)
continue;

if (SelItem && SelItem == I) continue;

if (xPos >= I->xPos() + I->xSize()) continue;
if (xPos + xSize <= I->xPos()) continue;

if (yPos >= I->yPos() + I->ySize()) continue;
if (yPos + ySize <= I->yPos()) continue;

return false;
}
return true;
}

```

```

    }
}

bool SelItemPlaceable(int IntoContainer,int xPos,int yPos,POINT Pos,HWND hPos)
{
    bool retbool = false;

    int xSize,ySize,BodyPlace;

    if (SelItem) {
        xSize = SelItem->xSize();
        ySize = SelItem->ySize();
        BodyPlace = SelItem->BodyPlace();
    }
    else {
        xSize = SelInfo->SizeX;
        ySize = SelInfo->SizeY;
        BodyPlace = SelInfo->BodyPlace;
    }

    return ItemPlaceable(IntoContainer,xPos,yPos,xSize,ySize,BodyPlace);
}

bool SelItemDeleteable()
{
    if (!SelItem) return false;
    if (SelItem == CopyBuffer) return true;

    // Check if we're deleting the Horadric Cube
    if (SelItem->ItemCode() == 0x1340 || SelItem->ItemCode() == ' xob')
    {
        // Count Cubes :-
        int cn = 0;
        for(Item *I = Items;I != 0;I = I->Next())
            if (I->ItemCode() == 0x1340 || I->ItemCode() == ' xob')
                cn++;

        // Last Cube ?
        if (cn == 1)
            for(Item *i = Items;i != 0;i = i->Next())
                if (i->Container() == CNT_CUBE)
                {
                    MessageBox(hTabDialog,"Horadric Cube is not empty!\nPlease delete all contained Items first.",PROGRA
MNAME,MB_OK | MB_ICONSTOP | MB_APPLMODAL);
                    return false;
                }
    }
    return true;
}

void ShowContextMenu(HWND hWnd,Item *I,int xPos,int yPos)
{
    POINT Pos;
    GetCursorPos(&Pos);

    if (I)
    {
        if (I->Busy) return;
        if (!I->Info) I->FindInfo();

        HMENU hMenu = CreatePopupMenu();

        // Selection Popup
        if (I->Info->QualityMask)
        {
            HMENU hSubMenu = CreatePopupMenu();
            if (I->Info->QualityMask & 1)
            {
                AppendMenu(hSubMenu,MF_STRING | (I->Quality() == CRUDEITEM ? MF_CHECKED : MF_UNCHECKED),
                    IDR_TAB2_SetQualityCrude,"Crude");
                AppendMenu(hSubMenu,MF_STRING | (I->Quality() == USUALITEM ? MF_CHECKED : MF_UNCHECKED),
                    IDR_TAB2_SetQualityRegular,"Regular");
                AppendMenu(hSubMenu,MF_STRING | (I->Quality() == SUPERIORITEM ? MF_CHECKED : MF_UNCHECKED),
                    IDR_TAB2_SetQualitySuperior,"Superior");
            }
            if (I->Info->QualityMask & 2)
            {
                AppendMenu(hSubMenu,MF_STRING | (I->Quality() == MAGICITEM ? MF_CHECKED : MF_UNCHECKED),

```

```

        IDR_TAB2_SetQualityMagical,"Magical");
        AppendMenu(hSubMenu,MF_STRING | (I->Quality() == RAREITEM ? MF_CHECKED : MF_UNCHECKED),
            IDR_TAB2_SetQualityRare,"Rare");
    }
    if (I->Info->QualityMask & 4 && I->Quality() == SETITEM)
    {
        AppendMenu(hSubMenu,MF_STRING | (I->Quality() == SETITEM ? MF_CHECKED : MF_UNCHECKED),
            IDR_TAB2_SetQualitySet,"Set Item");
    }
    if (I->Info->QualityMask & 8 && I->Quality() == UNIQUEITEM)
    {
        AppendMenu(hSubMenu,MF_STRING | (I->Quality() == UNIQUEITEM ? MF_CHECKED : MF_UNCHECKED),
            IDR_TAB2_SetQualityUnique,"Unique Item");
    }
    AppendMenu(hMenu,MF_POPUP,(UINT) hSubMenu,"Item Quality");
}

if (I->Quality() == MAGICITEM) {
    AppendMenu(hMenu,MF_STRING,IDR_TAB2_AttributeSelect,"Select Magical Attributes");
}
if (I->Quality() == RAREITEM) {
    AppendMenu(hMenu,MF_STRING,IDR_TAB2_AttributeSelect,"Select Rare Attributes");
}

if (I->Socketed()) {
    AppendMenu(hMenu,MF_STRING,IDR_TAB2_GemsEdit,"Change Inserted Gems");
}

if (I->ItemRecordID() == IT_103EAR || I->ItemRecordID() == IT_104EAR ) {
    AppendMenu(hMenu,MF_STRING,IDR_TAB2_SetEarProperties,"Change Ear Properties");
    AppendMenu(hMenu,MF_SEPARATOR,0,0);
}

if (I->ItemCode() == 0x1190 || I->ItemCode() == 'nir') {
    AppendMenu(hMenu,MF_STRING,IDR_TAB2_ChangeRingImage,"Change Ring Image");
}
if (I->ItemCode() == 0x1170 || I->ItemCode() == 'uma') {
    AppendMenu(hMenu,MF_STRING,IDR_TAB2_ChangeAmuletImage,"Change Amulet Image");
}

// Quantity Selection Entry
if (I->Info->Quantity)
{
    AppendMenu(hMenu,MF_STRING,IDR_TAB2_SetQuantity,"Set Quantity");
}

// Durability Selection Entry
if (I->Info->Durability)
{
    AppendMenu(hMenu,MF_STRING,IDR_TAB2_SetDurability,"Set Durability");
}

// Defense Selection Entry
if (I->Info->ACMin > 0)
{
    AppendMenu(hMenu,MF_STRING,IDR_TAB2_SetDefense,"Select Defense");
}

// Seperator
if (I->Info->Quantity || I->Info->Durability || I->Info->QualityMask)
    AppendMenu(hMenu,MF_SEPARATOR,0,0);

// Add Item Flags Selections
if (I->Socketed() || I->Socketable() || RegOptions.AllItemsSocketable)
{
    AppendMenu(hMenu,MF_STRING | (I->Socketed() ? MF_CHECKED : MF_UNCHECKED),
        IDR_TAB2_Socketed,"Socketed");
}

AppendMenu(hMenu,MF_STRING | (I->Identified() ? MF_CHECKED : MF_UNCHECKED),
    IDR_TAB2_Identified,"Identified");

AppendMenu(hMenu,MF_STRING | (I->Starter() ? MF_CHECKED : MF_UNCHECKED),
    IDR_TAB2_Starter,"Starter Item");

AppendMenu(hMenu,MF_SEPARATOR,0,0);

AppendMenu(hMenu,MF_STRING,IDR_TAB2_Cut,"Cut to Clipboard");
AppendMenu(hMenu,MF_STRING,IDR_TAB2_Copy,"Copy to Clipboard");

```

```

AppendMenu(hMenu,MF_STRING,IDR_TAB2_Delete,"Delete");

// Show Context Menu
TrackPopupMenu(hMenu, TPM_LEFTALIGN | TPM_LEFTBUTTON,
    Pos.x, Pos.y, 0, hTabDialog, NULL);

DestroyMenu(hMenu);
}
else
{
    if (!IsClipboardFormatAvailable(ClipBoardFormat) && !IsClipboardFormatAvailable(ClipBoardFormatJohnDoe)) {

        HMENU hMenu = CreatePopupMenu();

        AppendMenu(hMenu,MF_STRING | MF_GRAYED,0,"Paste: No Item in Clipboard");

        // Show Context Menu
        TrackPopupMenu(hMenu, TPM_LEFTALIGN | TPM_LEFTBUTTON,
            Pos.x, Pos.y, 0, hWnd, NULL);

        DestroyMenu(hMenu);
        return;
    }

    if (!OpenClipboard(hMainDialog))
        return;

    bool ok = false;

    if (IsClipboardFormatAvailable(ClipBoardFormat))
    {
        HGLOBAL Clip = GetClipboardData(ClipBoardFormat);

        struct JamClipboardHead *JamHead = (JamClipboardHead*) GlobalLock(Clip);

        ok = ItemPlaceable(ContainerFromHWND(hWnd),xPos,yPos,JamHead->xSize,JamHead->ySize,JamHead->BodyPlace);

        GlobalUnlock(Clip);
    }
    else if (IsClipboardFormatAvailable(ClipBoardFormatJohnDoe))
    {
        if (hWnd != hCopyBuffer) {
            HMENU hMenu = CreatePopupMenu();

            AppendMenu(hMenu,MF_STRING | MF_GRAYED,0,"Paste: John Doe's Item only in CopyBuffer");

            // Show Context Menu
            TrackPopupMenu(hMenu, TPM_LEFTALIGN | TPM_LEFTBUTTON,
                Pos.x, Pos.y, 0, hWnd, NULL);

            DestroyMenu(hMenu);
            return;
        }
        ok = true;
    }
}

CloseClipboard();

HMENU hMenu = CreatePopupMenu();

if (!ok) {
    AppendMenu(hMenu,MF_STRING | MF_GRAYED,0,"Paste: Not Placeable here!");
}
else {
    AppendMenu(hMenu,MF_STRING,IDR_TAB2_Paste,"Paste from Clipboard");
}

// Show Context Menu
TrackPopupMenu(hMenu, TPM_LEFTALIGN | TPM_LEFTBUTTON,
    Pos.x, Pos.y, 0, hWnd, NULL);

xStartPos = xPos;
yStartPos = yPos;

DestroyMenu(hMenu);
}
}

```

```
LRESULT CALLBACK Tab2InventoryProc(HWND hWnd,UINT uMsg,WPARAM wParam,LPARAM lParam)
```

```

{
switch(uMsg)
{
case WM_PAINT:
{
PAINTSTRUCT ps;
HDC hdc = BeginPaint(hWnd,&ps);

if (hWnd == hInv)
{
DrawGrid(hdc,CNT_INVENTORY);
for(Item *i = Items;i != 0;i = i->Next())
{
if (i->Container() == CNT_INVENTORY)
{
DrawItem(hdc,i);
}
}
}
else if (hWnd == hBelt)
{
DrawGrid(hdc,CNT_BELT);
for(Item *i = Items;i != 0;i = i->Next())
{
if (i->Container() == CNT_BELT)
{
DrawItem(hdc,i);
}
}
}
else if (hWnd == hCube)
{
DrawGrid(hdc,CNT_CUBE);
for(Item *i = Items;i != 0;i = i->Next())
{
if (i->Container() == CNT_CUBE)
{
DrawItem(hdc,i);
}
}
}
else if (hWnd == hStash)
{
DrawGrid(hdc,CNT_STASH);
for(Item *i = Items;i != 0;i = i->Next())
{
if (i->Container() == CNT_STASH)
{
DrawItem(hdc,i);
}
}
}
else if (hWnd == hCopyBuffer)
{
DrawGrid(hdc,CNT_COPYBUFFER);
if (CopyBuffer)
{
DrawItemSimple(hdc,CopyBuffer);
}
}
else if (hWnd == hBody)
{
// Put bg image
{
HDC hdcbitmap = CreateCompatibleDC(hdc);
SelectObject(hdcbitmap,hBmpBodyWhole);
BITMAP bmpinfo;
GetObject(hBmpBodyWhole,sizeof bmpinfo,&bmpinfo);
BitBlt(hdc,0,0,bmpinfo.bmWidth,bmpinfo.bmHeight,hdcbitmap,0,0,SRCCOPY);
DeleteDC(hdcbitmap);
}

for(Item *i = Items;i != 0;i = i->Next())
{
if (i->Container() == CNT_BODY)
{
DrawItemBody(hdc,i);
}
}
}
}
}

```

```

    }

    EndPaint(hWnd, &ps);
}
return true;
case WM_LBUTTONDOWN:
{
    SetFocus(hWnd);

    int xPos = LOWORD(lParam);
    int yPos = HIWORD(lParam);

    if (hWnd == hInv || hWnd == hBelt || hWnd == hCube || hWnd == hStash)
    {
        int cd = ContainerFromHWND(hWnd);

        for(Item *i = Items;i != 0;i = i->Next())
        {
            if (i->Container() == cd)
            {
                if (i->isInRegion(xPos -2,yPos -2))
                {
                    MakeSelection(i);
                    break;
                }
            }
        }
    }
    else if (hWnd == hBody)
    {
        for(int z=1;z<=BodyPartsNum;z++)
        {
            if (xPos >= BodyParts[z].xOrig && xPos <= BodyParts[z].xOrig + BodyParts[z].xSize &&
                yPos >= BodyParts[z].yOrig && yPos <= BodyParts[z].yOrig + BodyParts[z].ySize)
            {
                for(Item *i = Items;i != 0;i = i->Next())
                {
                    if (i->Container() == CNT_BODY)
                    {
                        if (z != i->BodyCode()) continue;
                        MakeSelection(i);
                        break;
                    }
                }
            }
        }
    }
    else if (hWnd == hCopyBuffer)
    {
        if (CopyBuffer)
        {
            MakeSelection(CopyBuffer);
        }
    }

    if (SelItem && !SelItem->Busy)
    {
        MouseButtonDown = true;
        xStartPos = xPos;
        yStartPos = yPos;
        FindCube();
        SetCapture(hWnd);
    }
}
return true;
case WM_RBUTTONDOWN:
{
    if (MouseButtonDown) return false;
    SetFocus(hWnd);

    int xPos = LOWORD(lParam);
    int yPos = HIWORD(lParam);

    POINT pt = { xPos, yPos };
    ClientToScreen(hWnd,&pt);

    if (hWnd == hInv || hWnd == hBelt || hWnd == hCube || hWnd == hStash)
    {
        int cd = ContainerFromHWND(hWnd);

```



```

for(Item *i = Items;i != 0;i = i->Next())
{
    if (i->Container() == cd)
    {
        if (i->isInRegion(xPos -2,yPos -2))
        {
            MakeSelection(i);
            break;
        }
    }
}
if (i == 0)
    MakeSelection(0);
}
else if (hWnd == hBody)
{
    MakeSelection(0);
    for(int z=1;z<=BodyPartsNum;z++)
    {
        if (xPos >= BodyParts[z].xOrig && xPos <= BodyParts[z].xOrig + BodyParts[z].xSize &&
            yPos >= BodyParts[z].yOrig && yPos <= BodyParts[z].yOrig + BodyParts[z].ySize)
        {
            for(Item *i = Items;i != 0;i = i->Next())
            {
                if (i->Container() == CNT_BODY)
                {
                    if (z != i->BodyCode()) continue;
                    MakeSelection(i);
                    break;
                }
            }
            if (i == 0)
                MakeSelection(0);
        }
    }
}
else if (hWnd == hCopyBuffer)
{
    if (CopyBuffer)
        MakeSelection(CopyBuffer);
    else
        MakeSelection(0);
}

ShowContextMenu(hWnd, SelItem, xPos, yPos);
}
return true;
case WM_CAPTURECHANGED:
{
    MouseButtonDown = false;
}
return true;
case WM_MOUSEMOVE:
{
    if (!MouseButtonDown) return false;
    if (!(abs( xPos - LOWORD(lParam) ) > xDragTol ||
        abs( yPos - HIWORD(lParam) ) > yDragTol) ) return false;

    MouseButtonMoved = true;

    // Mouse Position
    POINT Pos;
    GetCursorPos(&Pos);

    HWND hPos = WindowFromPoint(Pos);

    RECT rect;
    GetWindowRect(hPos,&rect);
    int xPos = Pos.x - rect.left;
    int yPos = Pos.y - rect.top;

    HCURSOR hSetCur = hCurNo;

    int CNT = ContainerFromHWND(hPos);

    if (CNT == CNT_COPYBUFFER)
    {
        if (SelItemPlaceable(CNT,xPos,yPos,Pos,hPos))

```

```

        hSetCur = hCurMoveCopy;
    else
        hSetCur = hCurCross;
}
else if (CNT)
{
    if (SelItemPlaceable(CNT,xPos,yPos,Pos,hPos))
        hSetCur = hCurMove;
    else
        hSetCur = hCurCross;
}

SetCursor(hSetCur);
}
return true;
case WM_LBUTTONDOWN:
{
    MouseButtonDown = false;
    ReleaseCapture();

    if (!MouseButtonMoved) break;
    MouseButtonMoved = false;

    // Mouse Position
    POINT Pos;
    GetCursorPos(&Pos);

    HWND hPos = WindowFromPoint(Pos);

    RECT rect;
    GetWindowRect(hPos,&rect);
    int xPos = Pos.x - rect.left;
    int yPos = Pos.y - rect.top;

    int CNT = ContainerFromHWND(hPos);

    if (SelItemPlaceable(CNT,xPos,yPos,Pos,hPos))
    {
        if (!SelItem && CNT != CNT_COPYBUFFER)
        {
            // Create New Item
            SelItem = CreateItem(&Items,SelInfo);
        }
        else if (!SelItem && CNT == CNT_COPYBUFFER)
        {
            // Create New Item in Copy Buffer
            if (CopyBuffer) {
                delete CopyBuffer;
                CopyBuffer = 0;
            }

            SelItem = CreateItem(&CopyBuffer,SelInfo);
        }
        else if (SelItem == CopyBuffer)
        {
            SelItem = ItemDuplicate(CopyBuffer);
            SelItem->LoadItemRecord(CopyBuffer->GetItemRecord());

            if (CopyBuffer->Gems)
            {
                for(Item *G = CopyBuffer->Gems;G != 0;G = G->Next())
                {
                    Item *GN = ItemDuplicate(G);
                    GN->LoadItemRecord(G->GetItemRecord());

                    if (SelItem->Gems)
                        SelItem->Gems->Attach(GN);
                    else
                        SelItem->Gems = GN;
                }
            }

            Items->Attach(SelItem);
        }
    }

    switch(CNT)
    {
        case CNT_INVENTORY:
        case CNT_STASH:
    }
}

```

```

case CNT_CUBE:
case CNT_BELT:
    {
        xPos = (xPos-2) / 29;
        yPos = (yPos-2) / 29;

        SelItem->SetCoordinates(CNT,xPos,yPos);
    }
    break;
case CNT_BODY:
    {
        for(int z=1;z<=BodyPartsNum;z++)
        {
            if (xPos >= BodyParts[z].xOrig && xPos <= BodyParts[z].xOrig + BodyParts[z].xSize &&
                yPos >= BodyParts[z].yOrig && yPos <= BodyParts[z].yOrig + BodyParts[z].ySize)
            {
                SelItem->SetCoordinates(CNT,z,0);
            }
        }
    }
    break;
case CNT_COPYBUFFER:
    {
        if (SelItem != CopyBuffer) {

            if (CopyBuffer) {
                delete CopyBuffer;
                CopyBuffer = 0;
            }

            CopyBuffer = ItemDuplicate(SelItem);
            CopyBuffer->LoadItemRecord(SelItem->GetItemRecord());

            if (SelItem->Gems)
            {
                for(Item *G = SelItem->Gems;G != 0;G = G->Next())
                {
                    Item *GN = ItemDuplicate(G);
                    GN->LoadItemRecord(G->GetItemRecord());

                    if (CopyBuffer->Gems)
                        CopyBuffer->Gems->Attach(GN);
                    else
                        CopyBuffer->Gems = GN;
                }
            }

            SelItem = CopyBuffer;
        }
    }
    break;
}
MakeSelection(SelItem);
UpdateTab2();

InvalidateRect(hTabDialog,NULL,FALSE);
UpdateWindow(hTabDialog);
}
else
{
    MessageBeep(MB_ICONHAND);
}
}
return true;
case WM_KEYDOWN:
{
    switch((int)wParam)
    {
        case VK_DELETE:
            if (MouseButtonDown) break;
            if (!SelItem) break;
            if (SelItem->Busy) break;

            if (SelItemDeleteable()) {
                if (SelItem == CopyBuffer) {
                    delete CopyBuffer;
                    CopyBuffer = 0;
                }
                else {

```

```

        SelItem->Delete();
    }
    MakeSelection(0);
}
break;
}
}
break;
case WM_COMMAND:
if (LOWORD(wParam) == IDR_TAB2_Paste)
{
    if (!IsClipboardFormatAvailable(ClipBoardFormat) && !IsClipboardFormatAvailable(ClipBoardFormatJohnDoe))
        return false;

    if (!OpenClipboard(hMainDialog))
        return false;

    int xPos = xStartPos;
    int yPos = yStartPos;

    int CNT = ContainerFromHWND(hWnd);

    Item *N = 0;

    if (IsClipboardFormatAvailable(ClipBoardFormat))
    {
        HGLOBAL Clip = GetClipboardData(ClipBoardFormat);

        BYTE *ClipData = (BYTE*)GlobalLock(Clip);

        struct JamClipboardHead *JamHead = (JamClipboardHead*) ClipData;

        if (!ItemPlaceable(CNT,xPos,yPos,JamHead->xSize,JamHead->ySize,JamHead->BodyPlace)) {
            GlobalUnlock(Clip);
            CloseClipboard();
            return false;
        }

        BYTE *o = ClipData + sizeof (JamClipboardHead);
        int s = GlobalSize(Clip);

        switch(JamHead->IID)
        {
        default:
            GlobalUnlock(Clip);
            CloseClipboard();
            return false;
        case IT_103:
            N = new Item103;

            N->LoadItemRecord(o);
            o += N->ItemRecordLength();

            while(s - (o - ClipData) >= 27)
            {
                Item *G = new Item103;
                G->LoadItemRecord(o);
                o += G->ItemRecordLength();

                if (N->Gems)
                    N->Gems->Attach(G);
                else
                    N->Gems = G;
            }
            break;
        case IT_103EAR:
            N = new Item103Ear;

            N->LoadItemRecord(o);
            o += N->ItemRecordLength();
            break;
        case IT_104EX:
            N = new Item104Ex;

            N->LoadItemRecord(o);
            o += N->ItemRecordLength();

            while(s - (o - ClipData) >= 15)
            {

```

```

        Item *G = new Item104Sm;
        G->LoadItemRecord(o);
        o += G->ItemRecordLength();

        if (N->Gems)
            N->Gems->Attach(G);
        else
            N->Gems = G;
    }
    break;
case IT_104SM:
    N = new Item104Sm;

    N->LoadItemRecord(o);
    o += N->ItemRecordLength();
    break;
case IT_104EAR:
    N = new Item104Ear;

    N->LoadItemRecord(o);
    o += N->ItemRecordLength();
    break;
}

GlobalUnlock(Clip);
}
else if (IsClipboardFormatAvailable(ClipBoardFormatJohnDoe))
{
    HGLOBAL Clip = GetClipboardData(ClipBoardFormatJohnDoe);

    BYTE *ClipData = (BYTE*)GlobalLock(Clip);

    DWORD nGems = *(DWORD*)ClipData;

    BYTE *o = ClipData + 4;
    int s = GlobalSize(Clip);

    N = new Item103;
    N->LoadItemRecord(o);
    o += N->ItemRecordLength();

    for(DWORD z=0;z<nGems && s - (o-ClipData) >= 27;z++)
    {
        Item *G = new Item103;
        G->LoadItemRecord(o);
        o += G->ItemRecordLength();

        if (N->Gems)
            N->Gems->Attach(G);
        else
            N->Gems = G;
    }

    GlobalUnlock(Clip);
}

CloseClipboard();

if (N)
{
    switch(CNT)
    {
    case CNT_INVENTORY:
    case CNT_STASH:
    case CNT_CUBE:
    case CNT_BELT:
        {
            xPos = (xPos-2) / 29;
            yPos = (yPos-2) / 29;

            N->SetCoordinates(CNT,xPos,yPos);

            if (Items)
                Items->Attach(N);
            else
                Items = N;
        }
    }
    break;
case CNT_BODY:

```

```

    {
        for(int z=1;z<=BodyPartsNum;z++)
        {
            if (xPos >= BodyParts[z].xOrig && xPos <= BodyParts[z].xOrig + BodyParts[z].xSize &&
                yPos >= BodyParts[z].yOrig && yPos <= BodyParts[z].yOrig + BodyParts[z].ySize)
            {
                N->SetCoordinates(CNT,z,0);

                if (Items)
                    Items->Attach(N);
                else
                    Items = N;
            }
        }
        break;
    case CNT_COPYBUFFER:
        {
            if (CopyBuffer) {
                delete CopyBuffer;
                CopyBuffer = 0;
            }
            CopyBuffer = N;
        }
        break;
    }

    MakeSelection(N);
    UpdateTab2();

    InvalidateRect(hTabDialog,NULL,FALSE);
    UpdateWindow(hTabDialog);
}
break;
}
return DefWindowProc(hWnd,uMsg,wParam,lParam);
}

```

```

// TAB2E.cpp from D2E
#include "JamellaD2E.h"

#define IDT_TIMER      12345

// TAB2E ToolBox
HWND hExpertBox;

const int nRawData = 32;

struct
{
    int     DialogID;
    HWND    hWnd;
}
Controls[] =
{
    { IDC_TAB2E_Raw00 },
    { IDC_TAB2E_Raw01 },
    { IDC_TAB2E_Raw02 },
    { IDC_TAB2E_Raw03 },
    { IDC_TAB2E_Raw04 },
    { IDC_TAB2E_Raw05 },
    { IDC_TAB2E_Raw06 },
    { IDC_TAB2E_Raw07 },
    { IDC_TAB2E_Raw08 },
    { IDC_TAB2E_Raw09 },
    { IDC_TAB2E_Raw0A },
    { IDC_TAB2E_Raw0B },
    { IDC_TAB2E_Raw0C },
    { IDC_TAB2E_Raw0D },
    { IDC_TAB2E_Raw0E },
    { IDC_TAB2E_Raw0F },
    { IDC_TAB2E_Raw10 },
    { IDC_TAB2E_Raw11 },
    { IDC_TAB2E_Raw12 },
    { IDC_TAB2E_Raw13 },
    { IDC_TAB2E_Raw14 },
    { IDC_TAB2E_Raw15 },
    { IDC_TAB2E_Raw16 },
    { IDC_TAB2E_Raw17 },
    { IDC_TAB2E_Raw18 },
    { IDC_TAB2E_Raw19 },
    { IDC_TAB2E_Raw1A },
    { IDC_TAB2E_Raw1B },
    { IDC_TAB2E_Raw1C },
    { IDC_TAB2E_Raw1D },
    { IDC_TAB2E_Raw1E },
    { IDC_TAB2E_Raw1F },

    { IDC_TAB2E_ItemCode },
    { IDC_TAB2E_UniqueCode },
    { IDC_TAB2E_DWA },
    { IDC_TAB2E_DWB },
    { IDC_TAB2E_MagicLevel },
    { IDC_TAB2E_GemNum },
};

inline char* MakeHex(int v,int digits)
{
    sprintf(buffer,"%0*X",digits,v);
    return buffer;
}

inline char* MakeDez(int v)
{
    sprintf(buffer,"%d",v);
    return buffer;
}

inline void ConvHex(int DlgID,BYTE *dest)
{
    GetDlgItemText(hExpertBox,DlgID,buffer,256);
    if(strlen(buffer) > 2) return;
    char *test;
    int x = strtoul(buffer,&test,16);
    if (*test == 0) *dest = x;
}

inline void ConvHex(int DlgID,WORD *dest)
{

```

```

    GetDlgItemText(hExpertBox,DlgID,buffer,256);
    if(strlen(buffer) > 4) return;
    char *test;
    int x = strtoul(buffer,&test,16);
    if (*test == 0) *dest = x;
}
inline void ConvHex(int DlgID,DWORD *dest)
{
    GetDlgItemText(hExpertBox,DlgID,buffer,256);
    if(strlen(buffer) > 8) return;
    char *test;
    int x = strtoul(buffer,&test,16);
    if (*test == 0) *dest = x;
}
inline bool ConvDezProp(int DlgID,int *dest)
{
    GetDlgItemText(hExpertBox,DlgID,buffer,256);
    char *test;
    int x = strtoul(buffer,&test,10);
    if (*test == 0) {
        *dest = x;
        return true;
    }
    return false;
}
inline bool ConvHexProp(int DlgID,int *dest)
{
    GetDlgItemText(hExpertBox,DlgID,buffer,256);
    char *test;
    int x = strtoul(buffer,&test,16);
    if (*test == 0) {
        *dest = x;
        return true;
    }
    return false;
}
void UpdateTab2E()
{
    if (!hExpertBox) return;

    if (SelItem)
    {
        for(int z=0;z< sizeof Controls / sizeof Controls[0];z++)
        {
            EnableWindow(Controls[z].hWindow,TRUE);
        }

        memset(buffer,0,sizeof buffer);

        SetDlgItemText(hExpertBox, IDC_TAB2E_ItemRecordID, SelItem->ItemRecordName());

        BYTE *RawData = SelItem->GetItemRecord();
        int RawDataLen = SelItem->ItemRecordLength();

        for(int n=0;n<nRawData;n++)
        {
            if (n < RawDataLen)
                SetDlgItemText(hExpertBox,Controls[n].DialogID,MakeHex(RawData[n],2));
            else
                SetDlgItemText(hExpertBox,Controls[n].DialogID,"");
        }

        SetDlgItemText(hExpertBox, IDC_TAB2E_ItemCode, MakeHex(SelItem->ItemCode(),8));
        SetDlgItemText(hExpertBox, IDC_TAB2E_ItemCodeChar, CodeString(SelItem->ItemCode()));
        SetDlgItemText(hExpertBox, IDC_TAB2E_UniqueCode, MakeHex(SelItem->UniqueCode(),2));

        SetDlgItemText(hExpertBox, IDC_TAB2E_Container, MakeDez(SelItem->Container()));
        SetDlgItemText(hExpertBox, IDC_TAB2E_Xoord, MakeDez(SelItem->xPos()));
        SetDlgItemText(hExpertBox, IDC_TAB2E_Yoord, MakeDez(SelItem->yPos()));
        SetDlgItemText(hExpertBox, IDC_TAB2E_BodyCode, MakeDez(SelItem->BodyCode()));

        SetDlgItemText(hExpertBox, IDC_TAB2E_DWA, MakeHex(SelItem->DWA(),8));
        SetDlgItemText(hExpertBox, IDC_TAB2E_DWB, MakeHex(SelItem->DWB(),8));
        SetDlgItemText(hExpertBox, IDC_TAB2E_MagicLevel, MakeHex(SelItem->MagicLevel(),2));

        SetDlgItemText(hExpertBox, IDC_TAB2E_GemNum, MakeDez(SelItem->GemNum()));

/*
    if (SelItem->MagicPrefix)
    {

```



```

        SetDlgItemText(hExpertBox, IDC_TAB2E_Val8, MakeDez(SelItem->MagicPrefix->N));
        SetDlgItemText(hExpertBox, IDC_TAB2E_Val9, MakeDez(SelItem->MagicPrefix->nMod));
        SetDlgItemText(hExpertBox, IDC_TAB2E_Val10, MakeDez(SelItem->modMagicPrefix));
        SetDlgItemText(hExpertBox, IDC_TAB2E_Val11, MakeDez(SelItem->modpickMagicPrefix));
    }
    else
    {
        SetDlgItemText(hExpertBox, IDC_TAB2E_Val8, "");
        SetDlgItemText(hExpertBox, IDC_TAB2E_Val9, "");
        SetDlgItemText(hExpertBox, IDC_TAB2E_Val10, "");
        SetDlgItemText(hExpertBox, IDC_TAB2E_Val11, "");
    }
    if (SelItem->MagicSuffix)
    {
        SetDlgItemText(hExpertBox, IDC_TAB2E_Val12, MakeDez(SelItem->MagicSuffix->N & 0xFF));
        SetDlgItemText(hExpertBox, IDC_TAB2E_Val13, MakeDez(SelItem->MagicSuffix->nMod));
        SetDlgItemText(hExpertBox, IDC_TAB2E_Val14, MakeDez(SelItem->modMagicSuffix));
        SetDlgItemText(hExpertBox, IDC_TAB2E_Val15, MakeDez(SelItem->modpickMagicSuffix));
    }
    else
    {
        SetDlgItemText(hExpertBox, IDC_TAB2E_Val12, "");
        SetDlgItemText(hExpertBox, IDC_TAB2E_Val13, "");
        SetDlgItemText(hExpertBox, IDC_TAB2E_Val14, "");
        SetDlgItemText(hExpertBox, IDC_TAB2E_Val15, "");
    }
    */
}
else
{
    SetDlgItemText(hExpertBox, IDC_TAB2E_ItemRecordID, "");
    for(int z=0; z< sizeof Controls / sizeof Controls[0]; z++)
    {
        EnableWindow(Controls[z].hWindow, FALSE);
        SetWindowText(Controls[z].hWindow, "");
    }
}

if (hRandomBox)
    UpdateTab2Rnd();
if (hItemListBox)
    UpdateTab2ItemList();
}

LRESULT CALLBACK Tab2EDialogProc(HWND hWnd, UINT uMsg, WPARAM wParam, LPARAM lParam)
{
    switch(uMsg)
    {
    case WM_INITDIALOG:
        {
            {
                RECT DialogPos;

                GetWindowRect(hMainDialog, &DialogPos);
                DialogPos.left = DialogPos.right;

                SetWindowPos(hWnd, HWND_TOP,
                    DialogPos.left, DialogPos.top,
                    0, 0, SWP_NOSIZE | SWP_NOACTIVATE);
            }

            for(int z=0; z< sizeof Controls / sizeof Controls[0]; z++)
            {
                Controls[z].hWindow = GetDlgItem(hWnd, Controls[z].DialogID);
            }

            SetTimer(hWnd, IDT_TIMER, EXPERTBOXPOLLER, NULL);

            hExpertBox = hWnd;
            UpdateTab2E();

            ShowWindow(hWnd, SW_SHOWNOACTIVATE);
        }
        return true;
    case WM_TIMER:
        switch(wParam)
        {
        case IDT_TIMER:
            {

```

```

        if (SelItem && SelItem->Busy) {
            UpdateTab2E();
            InvalidateRect(hExpertBox, NULL, FALSE);
        }
    }
    break;
}
return false;
case WM_COMMAND:
{
    if (HIWORD(wParam) == EN_KILLFOCUS)
    {
        switch(LOWORD(wParam))
        {
            case IDC_TAB2E_Raw00: case IDC_TAB2E_Raw10:
            case IDC_TAB2E_Raw01: case IDC_TAB2E_Raw11:
            case IDC_TAB2E_Raw02: case IDC_TAB2E_Raw12:
            case IDC_TAB2E_Raw03: case IDC_TAB2E_Raw13:
            case IDC_TAB2E_Raw04: case IDC_TAB2E_Raw14:
            case IDC_TAB2E_Raw05: case IDC_TAB2E_Raw15:
            case IDC_TAB2E_Raw06: case IDC_TAB2E_Raw16:
            case IDC_TAB2E_Raw07: case IDC_TAB2E_Raw17:
            case IDC_TAB2E_Raw08: case IDC_TAB2E_Raw18:
            case IDC_TAB2E_Raw09: case IDC_TAB2E_Raw19:
            case IDC_TAB2E_Raw0A: case IDC_TAB2E_Raw1A:
            case IDC_TAB2E_Raw0B: case IDC_TAB2E_Raw1B:
            case IDC_TAB2E_Raw0C: case IDC_TAB2E_Raw1C:
            case IDC_TAB2E_Raw0D: case IDC_TAB2E_Raw1D:
            case IDC_TAB2E_Raw0E: case IDC_TAB2E_Raw1E:
            case IDC_TAB2E_Raw0F: case IDC_TAB2E_Raw1F:
            {
                if (SelItem)
                {
                    BYTE *RawData = SelItem->GetItemRecord();
                    int RawDataLen = SelItem->ItemRecordLength();

                    for(int n=0;n<nRawData;n++)
                    {
                        if (n < RawDataLen) {
                            ConvHex(Controls[n].DialogID, &RawData[n]);
                        }
                    }

                    SelItem->Info = 0;
                    UpdateTab2();
                    InvalidateRect(hTabDialog, NULL, FALSE);
                }
            }
        }
        break;
    case IDC_TAB2E_ItemCode:
    case IDC_TAB2E_UniqueCode:
    case IDC_TAB2E_DWA:
    case IDC_TAB2E_DWB:
    case IDC_TAB2E_MagicLevel:
    case IDC_TAB2E_GemNum:
    {
        if (SelItem)
        {
            int z;

            if (ConvHexProp(IDC_TAB2E_ItemCode, &z)) SelItem->SetItemCode(z);
            if (ConvHexProp(IDC_TAB2E_UniqueCode, &z)) SelItem->SetUniqueCode(z);

            if (ConvHexProp(IDC_TAB2E_DWA, &z)) SelItem->SetDWA(z);
            if (ConvHexProp(IDC_TAB2E_DWB, &z)) SelItem->SetDWB(z);
            if (ConvHexProp(IDC_TAB2E_MagicLevel, &z)) SelItem->SetMagicLevel(z);

            if (ConvDezProp(IDC_TAB2E_GemNum, &z)) SelItem->SetGemNum(z);

            // if (SelItem->MagicPrefix)
            // {
            //     if (ConvDezProp(IDC_TAB2E_Val8, &z)) MagicPrefixTable[SelItem->iMagicPrefix].ModLevel = z
            //     ;
            //     //if (ConvDezProp(IDC_TAB2E_Val9, &z)) SelItem->MagicPrefix->nMod = z;
            // }
            // if (SelItem->MagicSuffix)
            // {
            //     if (ConvDezProp(IDC_TAB2E_Val12, &z)) MagicSuffixTable[SelItem->iMagicSuffix].ModLevel =
            // z;
        }
    }
}

```



```
        if (hItemListBox)
            DestroyWindow(hItemListBox);
    }
    return false;
case WM_DESTROY:
    {
        if (hRandomBox)
            DestroyWindow(hRandomBox);

        CheckDlgButton(hTabDialog, IDC_TAB2_ExpertMode, BST_UNCHECKED);

        hExpertBox = 0;
    }
    return false;
}
return false;
}
```

```

// Tab2Gems.cpp from D2E

#include "JamellaD2E.h"

struct
{
    int      Frame,Bitmap,ListBox,InfoEdit;

    bool     Active;
    int      ItemCode;
}
GemID[] =
{
    { IDC_TAB2Gems_Frame1, IDC_TAB2Gems_Bmp1, IDC_TAB2Gems_Sel1, IDC_TAB2Gems_Info1 },
    { IDC_TAB2Gems_Frame2, IDC_TAB2Gems_Bmp2, IDC_TAB2Gems_Sel2, IDC_TAB2Gems_Info2 },
    { IDC_TAB2Gems_Frame3, IDC_TAB2Gems_Bmp3, IDC_TAB2Gems_Sel3, IDC_TAB2Gems_Info3 },
    { IDC_TAB2Gems_Frame4, IDC_TAB2Gems_Bmp4, IDC_TAB2Gems_Sel4, IDC_TAB2Gems_Info4 },
    { IDC_TAB2Gems_Frame5, IDC_TAB2Gems_Bmp5, IDC_TAB2Gems_Sel5, IDC_TAB2Gems_Info5 },
    { IDC_TAB2Gems_Frame6, IDC_TAB2Gems_Bmp6, IDC_TAB2Gems_Sel6, IDC_TAB2Gems_Info6 },
    { IDC_TAB2Gems_Frame7, IDC_TAB2Gems_Bmp7, IDC_TAB2Gems_Sel7, IDC_TAB2Gems_Info7 }
};

int FindnGemInfo(DWORD ICode)
{
    for(int n=0;n<nGemInfos;n++) {
        if (GemInfos[n].ItemCode == ICode || GemInfos[n].IC == ICode)
            return n;
    }
    return -1;
}

ItemInfo *FindItemInfo(DWORD ICode)
{
    for(int n=0;n<nItemInfos;n++) {
        if (ItemInfos[n].ItemCode == ICode || ItemInfos[n].IC == ICode)
            return &ItemInfos[n];
    }
    return 0;
}

inline int FindListBoxID(int DlgID)
{
    for(int z=0;z<sizeof GemID / sizeof GemID[0];z++) {
        if (GemID[z].ListBox == DlgID)
            return z;
    }
    return -1;
}

char MergeGemTextsBuffer[256];
const char *MergeGemTexts(const GemInfo* Info)
{
    char *s = MergeGemTextsBuffer;
    *s = 0;

    switch(SelItem->Info->GemClass)
    {
    case 'W':
        {
            for(int z=0;z<3;z++) {
                if (!Info->WeaponMod[z].Code) continue;

                const char *e = GetEffect(Info->WeaponMod[z].Code);
                sprintf(buffer,e,Info->WeaponMod[z].Min);

                strcat(s,buffer);
                strcat(s,"\r\n");
            }
            break;
        }
    case 'H':
        {
            for(int z=0;z<3;z++) {
                if (!Info->HelmMod[z].Code) continue;

                const char *e = GetEffect(Info->HelmMod[z].Code);
                sprintf(buffer,e,Info->HelmMod[z].Min);

                strcat(s,buffer);
                strcat(s,"\r\n");
            }
        }
    }
}

```

```

        break;
    }
    case 'S':
    {
        for(int z=0;z<3;z++) {
            if (!Info->ShieldMod[z].Code) continue;

            const char *e = GetEffect(Info->ShieldMod[z].Code);
            sprintf(buffer,e,Info->ShieldMod[z].Min);

            strcat(s,buffer);
            strcat(s,"\r\n");
        }
        break;
    }
}
return s;
}

void UpdateTab2Gems(HWND hWnd)
{
    for(int z=0;z<sizeof GemID / sizeof GemID[0];z++)
    {
        if (GemID[z].Active)
        {
            EnableWindow(GetDlgItem(hWnd,GemID[z].Frame),TRUE);
            EnableWindow(GetDlgItem(hWnd,GemID[z].Bitmap),TRUE);
            EnableWindow(GetDlgItem(hWnd,GemID[z].ListBox),TRUE);
            EnableWindow(GetDlgItem(hWnd,GemID[z].InfoEdit),TRUE);

            if (GemID[z].ItemCode)
            {
                int nGI = FindnGemInfo(GemID[z].ItemCode);
                if (nGI < 0) {
                    SendDlgItemMessage(hWnd,GemID[z].Bitmap,STM_SETIMAGE,IMAGE_BITMAP,(LPARAM) 0);
                    SendDlgItemMessage(hWnd,GemID[z].ListBox,CB_SETCURSEL,0,0);
                    SetDlgItemText(hWnd,GemID[z].InfoEdit,"???");
                }
                else {
                    const GemInfo *GI = &GemInfos[nGI];
                    ItemInfo *II = FindItemInfo(GemID[z].ItemCode);

                    SendDlgItemMessage(hWnd,GemID[z].Bitmap,STM_SETIMAGE,IMAGE_BITMAP,(LPARAM) ItemInfoGetBitmap(II));
                    SendDlgItemMessage(hWnd,GemID[z].ListBox,CB_SETCURSEL,nGI,0);
                    SetDlgItemText(hWnd,GemID[z].InfoEdit,MergeGemTexts(GI));
                }
            }
            else
            {
                SendDlgItemMessage(hWnd,GemID[z].Bitmap,STM_SETIMAGE,IMAGE_BITMAP,(LPARAM) 0);
                SendDlgItemMessage(hWnd,GemID[z].ListBox,CB_SETCURSEL,0,0);
                SetDlgItemText(hWnd,GemID[z].InfoEdit,"");
            }
        }
        else
        {
            EnableWindow(GetDlgItem(hWnd,GemID[z].Frame),FALSE);
            SendDlgItemMessage(hWnd,GemID[z].Bitmap,STM_SETIMAGE,IMAGE_BITMAP,0);
            EnableWindow(GetDlgItem(hWnd,GemID[z].Bitmap),FALSE);
            EnableWindow(GetDlgItem(hWnd,GemID[z].ListBox),FALSE);
            EnableWindow(GetDlgItem(hWnd,GemID[z].InfoEdit),FALSE);

            SetDlgItemText(hWnd,GemID[z].InfoEdit,"");
        }
    }
}

void LoadGems()
{
    Item *G = SelItem->Gems;

    for(int z=0;z<sizeof GemID / sizeof GemID[0];z++)
    {
        GemID[z].Active = true;

        if (SelItem->Info->Sockets > z || RegOptions.A7Gems)
        {
            if (G) {

```

```

        GemID[z].ItemCode = G->ItemCode();
    }
    else {
        GemID[z].ItemCode = 0x0000;
    }

    if (G) G = G->Next();
}
else {
    GemID[z].Active = false;
}
}
}
void SaveGems()
{
    if (SelItem->Gems) {
        delete SelItem->Gems;
        SelItem->Gems = 0;
    }

    for(int z=0;z<sizeof GemID / sizeof GemID[0];z++)
    {
        if (!GemID[z].Active) continue;
        if (!GemID[z].ItemCode) continue;

        ItemInfo *II = FindItemInfo(GemID[z].ItemCode);

        Item *G = CreateItem(&SelItem->Gems,II);

        G->SetCoordinates(CNT_SOCKET,z,0);
        G->SetQuality(USUALITEM+1);
    }

    SelItem->SetGemNum(SelItem->Gems->Count());
}

LRESULT CALLBACK Tab2GemsDialogProc(HWND hWnd,UINT uMsg,WPARAM wParam,LPARAM lParam)
{
    switch(uMsg)
    {
    case WM_INITDIALOG:
        {
            LoadGems();

            for(int z=0;z<sizeof GemID / sizeof GemID[0];z++)
                SendDlgItemMessage(hWnd,GemID[z].ListBox,CB_RESETCONTENT,0,0);

            for(int n=0;n<nGemInfos;n++)
            {
                for(int z=0;z<sizeof GemID / sizeof GemID[0];z++)
                {
                    SendDlgItemMessage(hWnd,GemID[z].ListBox,CB_ADDSTRING,0,(LPARAM)GemInfos[n].Name);
                    SendDlgItemMessage(hWnd,GemID[z].ListBox,CB_SETITEMDATA,n,(LPARAM) GemInfos[n].ItemCode);
                }
            }

            for(z=0;z<sizeof GemID / sizeof GemID[0];z++)
                SendDlgItemMessage(hWnd,GemID[z].ListBox,CB_SETCURSEL,0,0);

            UpdateTab2Gems(hWnd);
        }
        return true;
    case WM_COMMAND:
        {
            switch(LOWORD(wParam))
            {
            case IDOK:
                SaveGems();
                EndDialog(hWnd,IDOK);
                break;
            case IDCANCEL:
                EndDialog(hWnd,IDCANCEL);
                break;
            case IDC_TAB2Gems_Sel1:
            case IDC_TAB2Gems_Sel2:
            case IDC_TAB2Gems_Sel3:
            case IDC_TAB2Gems_Sel4:
            case IDC_TAB2Gems_Sel5:
            case IDC_TAB2Gems_Sel6:

```

```
case IDC_TAB2Gems_Sel7:
{
    if (HIWORD(wParam) == CBN_SELCHANGE)
    {
        int ID = FindListBoxID(LOWORD(wParam));
        if (!GemID[ID].Active) break;

        HWND hCtl = (HWND) lParam;

        int i = SendMessage(hCtl,CB_GETCURSEL,0,0);
        GemID[ID].ItemCode = SendMessage(hCtl,CB_GETITEMDATA,i,0);

        UpdateTab2Gems(hWnd);
    }
    break;
}
return false;
case WM_CLOSE:
    EndDialog(hWnd,IDCANCEL);
    return false;
case WM_DESTROY:
{
    return false;
}
return false;
}
```



```

// TAB2ItemFileLoadSave.cpp from D2E

#include "JamellaD2E.h"

static const char *ReadItemErrorString = 0;

Item *MakeItemFromData(BYTE* data, int size)
{
    struct
    {
        char    JM[2];
        WORD    unimportant;
        WORD    type;
    } ItemHead;

    memcpy(&ItemHead,data,sizeof ItemHead);
    BYTE *d = data;

    Item *I = 0;

    if (ItemHead.JM[0] != 'J' || ItemHead.JM[1] != 'M')
    {
        ReadItemErrorString = "Invalid Item File!\r\nJM Header missing.";
        return 0;
    }

    if ((ItemHead.type & 0x0039) == 0x0000) // 1.03 Item Data Type
    {
        if ((size % 27) == 0) {
            I = new Item103;
            I->LoadItemRecord(d);
            size -= I->ItemRecordLength();
            d += I->ItemRecordLength();

            while(size >= 27)
            {
                Item *G = new Item103;
                if (I->Gems)
                    I->Gems->Attach(G);
                else
                    I->Gems = G;
                G->LoadItemRecord(d);
                size -= G->ItemRecordLength();
                d += G->ItemRecordLength();
            }
        }
        else if (size == 39) { // 39 = 0x27 != 27 Doe you Idiot!
            I = new Item103;
            I->LoadItemRecord(d);
        }
        else if (size == 36) { // 36 another editor made these
            I = new Item103;
            I->LoadItemRecord(d);
        }
        else {
            // this is crazy. I'll load any item length now, because
            // of a variable length item record from doe's 3.41
            I = new Item103;
            if (!I->LoadItemRecord(d)) {
                ReadItemErrorString = "Invalid Item File!\r\nItem structure indicates a 1.03 item, but JM signature is missing.\nFile size checks are ignored here.";
                delete I;
                return 0;
            }
        }
    }
    else if ((ItemHead.type & 0x0039) == 0x0001) // 1.03 Ear Item Data Type
    {
        if (size == 27) {
            I = new Item103Ear;
            I->LoadItemRecord(d);
        }
        else {
            ReadItemErrorString = "Invalid Item File!\r\nItem structure indicates a 1.03 ear item, but size is not 27.";
        }
    }
    else if ((ItemHead.type & 0x0039) == 0x0018) // 1.04 Extended Struct
    {
        if (size == 31 || ((size-31) % 15) == 0) {

```

```

I = new Item104Ex;
I->LoadItemRecord(d);
size -= I->ItemRecordLength();
d += I->ItemRecordLength();

while(size >= 15)
{
    Item *G = new Item104Sm;
    if (I->Gems)
        I->Gems->Attach(G);
    else
        I->Gems = G;
    G->LoadItemRecord(d);
    size -= G->ItemRecordLength();
    d += G->ItemRecordLength();
}
}
else {
    ReadItemErrorString = "Invalid Item File!\r\nItem structure indicates a 1.04 extended item, but size is not
31.";
}
}
else if ((ItemHead.type & 0x0039) == 0x0038) // 1.04 Simple Struct
{
    if (size == 15) {
        I = new Item104Sm;
        I->LoadItemRecord(d);
    }
    else {
        ReadItemErrorString = "Invalid Item File!\r\nItem structure indicates a 1.04 simple item, but size is not 15
.";
    }
}
else if ((ItemHead.type & 0x0039) == 0x0039) // 1.04 Ear Struct
{
    if (size == 26) {
        I = new Item104Ear;
        I->LoadItemRecord(d);
    }
    else {
        ReadItemErrorString = "Invalid Item File!\r\nItem structure indicates a 1.04 ear item, but size is not 26.";
    }
}
else {
    ReadItemErrorString = "Invalid Item File!\r\nUnknown item structure identifier.";
}
return I;
}

Item *MakeItemFromFile(HANDLE hFile)
{
    DWORD fsize = GetFileSize(hFile,NULL);

    if (fsize < 6)
    {
        ReadItemErrorString = "Invalid Item File!\r\nFile size smaller than 6.";
        return 0;
    }
    if (fsize > 512)
    {
        ReadItemErrorString = "Invalid Item File!\r\nFile much too large (> 512 bytes).";
        return 0;
    }

    unsigned long read;
    BYTE buff[512];

    ReadFile(hFile,buff,fsize,&read,0);

    if (read != fsize)
    {
        ReadItemErrorString = "Could not read from file!";
        return 0;
    }

    return MakeItemFromData(buff,read);
}

```

```

#if defined(JAMELLAEDITOR)

// LoadItemFile OPENFILENAME Explorer Hook
static UINT_PTR CALLBACK OFNHookProc(HWND hWnd,UINT uMsg,WPARAM wParam,LPARAM lParam)
{
    switch(uMsg)
    {
    case WM_INITDIALOG:
        SendDlgItemMessage(hWnd,IDC_IBWSR_RichText,EM_SETBKGNDCOLOR,FALSE,GetSysColor(COLOR_BTNFACE));
        return true;

    case WM_NOTIFY:
        switch(((NMHDR*)lParam)->code)
        {
        case CDN_SELCHANGE:
            {
                char QueryFilename[128];
                int x = ComDlg_OpenSave_GetFilePath(((NMHDR*)lParam)->hwndFrom,QueryFilename,sizeof QueryFilename);

                // Open File
                HANDLE hFile = CreateFile(QueryFilename,
                    GENERIC_READ,FILE_SHARE_WRITE,NULL,
                    OPEN_EXISTING,FILE_ATTRIBUTE_NORMAL,NULL);

                if (hFile == INVALID_HANDLE_VALUE) return true;

                ReadItemErrorString = 0;
                Item *I = MakeItemFromFile(hFile);

                if (I)
                {
                    I->FindInfo();
                    I->Decode();

                    RTFStreamSend(hWnd,IDC_IBWSR_RichText,I->RichText());

                    SendDlgItemMessage(hWnd,IDC_IBWSR_Bitmap,STM_SETIMAGE,IMAGE_BITMAP,(LPARAM)I->GetBitmap());

                    delete I;
                }
                else
                {
                    char RTF[2048];
                    char RTFBuffer[260];

                    ASCIItoRTF(RTFBuffer,ReadItemErrorString);
                    sprintf(RTF,"{\rtf1\ansi\ansicpg1252\deflang1031 {\fonttbl{\f0\fswiss\fcharset0 MS Sa
ns Serif;}} \uc1\pard\qc\b\f0\fs16 %s\par }",RTFBuffer);
                    RTFStreamSend(hWnd,IDC_IBWSR_RichText,RTF);

                    SendDlgItemMessage(hWnd,IDC_IBWSR_Bitmap,STM_SETIMAGE,IMAGE_BITMAP,(LPARAM)0);
                }

                CloseHandle(hFile);
            }
            return true;
        }
        return false;

    case WM_DESTROY:
        return true;
    }
    return false;
}

bool LoadItemFile(HWND hWnd)
{
    if (CopyBuffer && CopyBuffer->Busy) return false;

    // common dialog box structure
    OPENFILENAME ofn;
    char QueryFilename[260];

    {
        // Initialize OPENFILENAME
        ZeroMemory(&ofn,sizeof(OPENFILENAME));
        ofn.lStructSize = sizeof(OPENFILENAME);
        ofn.hwndOwner = hWnd;
        ofn.lpstrFilter = "D2 Saved Item (*.d2i;*.item;*.ite;*.itm)\0*.d2i;*.item;*.ite;*.itm\0Other Files (*.*)\0*.*\0"
;
    }
}

```

```

ofn.nFilterIndex = 0;
ofn.lpstrFile = QueryFilename;
ofn.nMaxFile = sizeof(QueryFilename);
ofn.lpstrFileTitle = NULL;
ofn.lpstrDefExt = ".d2i";
ofn.nMaxFileTitle = 0;
ofn.lpstrInitialDir = RegOptions.ItemPath;
ofn.hInstance = hInstance;
ofn.lpTemplateName = MAKEINTRESOURCE(IDD_IBWSR);
ofn.lpfnHook = &OFNHookProc;

ofn.Flags = OFN_PATHMUSTEXIST | OFN_FILEMUSTEXIST | OFN_NOREADONLYRETURN | OFN_HIDEREADONLY | OFN_ENABLETEMPLATE
| OFN_EXPLORER | OFN_ENABLEHOOK;

ZeroMemory(&QueryFilename,sizeof(QueryFilename));
}

if (GetOpenFileName(&ofn))
{
// Open File
HANDLE hFile = CreateFile(QueryFilename,
GENERIC_READ,FILE_SHARE_WRITE,NULL,
OPEN_EXISTING,FILE_ATTRIBUTE_NORMAL,NULL);

if (hFile == INVALID_HANDLE_VALUE)
{
MessageBox(hWnd,"Could not open file!",PROGRAMNAME,
MB_OK | MB_ICONSTOP | MB_APPLMODAL);
return false;
}

ReadItemErrorString = 0;
Item *N = MakeItemFromFile(hFile);

if (N) {

if (CopyBuffer)
delete CopyBuffer;

CopyBuffer = N;

strcpy(RegOptions.ItemPath,QueryFilename);
char *sl = RegOptions.ItemPath;
while(strstr(sl,"\\") != 0)
sl = strstr(sl,"\\")+1;
*sl = 0;

InvalidateRect(hTabDialog,NULL,FALSE);
UpdateWindow(hTabDialog);
}
else
{
ErrorBox(ReadItemErrorString);
}

CloseHandle(hFile);
}
return true;
}

bool SaveItemFile(HWND hWnd)
{
if (!CopyBuffer)
{
ErrorBox("You must put an item into the Copy Buffer!",hWnd);
return false;
}
if (CopyBuffer->Busy) return false;

// common dialog box structure
char QueryFilename[260];
OPENFILENAME ofn;

{ // Initialize OPENFILENAME
ZeroMemory(&ofn,sizeof(OPENFILENAME));
ofn.lStructSize = sizeof(OPENFILENAME);

ofn.hwndOwner = hWnd;
ofn.lpstrFilter = "D2 Saved Item (*.d2i)\0*.d2i\0";

```

```

ofn.nFilterIndex = 0;
ofn.lpstrFile = QueryFilename;
ofn.nMaxFile = sizeof(QueryFilename);
ofn.lpstrInitialDir = RegOptions.ItemPath;
ofn.lpstrFileTitle = NULL;
ofn.lpstrDefExt = "d2i";
ofn.nMaxFileTitle = 0;

ofn.Flags = OFN_PATHMUSTEXIST | OFN_OVERWRITEPROMPT | OFN_NOREADONLYRETURN | OFN_HIDEREADONLY;

ZeroMemory(&QueryFilename,sizeof(QueryFilename));
strcpy(QueryFilename,CopyBuffer->Name());
}

// Display the Open Dialog Box
if (GetSaveFileName(&ofn))
{
    // Open File
    HANDLE hFile = CreateFile(QueryFilename,
        GENERIC_WRITE,FILE_SHARE_WRITE,NULL,
        CREATE_ALWAYS,FILE_ATTRIBUTE_NORMAL,NULL);

    if (hFile == INVALID_HANDLE_VALUE)
    {
        MessageBox(hWnd,"Could not open file!",PROGRAMNAME,
            MB_OK | MB_ICONSTOP | MB_APPLMODAL);
        return true;
    }

    unsigned long written;
    WriteFile(hFile,CopyBuffer->GetItemRecord(),CopyBuffer->ItemRecordLength(),&written,0);

    if (written != (unsigned long)CopyBuffer->ItemRecordLength())
    {
        MessageBox(hWnd,"Could not write to file!",PROGRAMNAME,
            MB_OK | MB_ICONSTOP | MB_APPLMODAL);
    }

    if (CopyBuffer->Socketed())
    {
        for(Item *G = CopyBuffer->Gems;G != 0;G = G->Next())
        {
            unsigned long written;
            WriteFile(hFile,G->GetItemRecord(),G->ItemRecordLength(),&written,0);

            if (written != (unsigned long)G->ItemRecordLength())
            {
                MessageBox(hWnd,"Could not write to file!",PROGRAMNAME,
                    MB_OK | MB_ICONSTOP | MB_APPLMODAL);
            }
        }
    }

    CloseHandle(hFile);

    strcpy(RegOptions.ItemPath,QueryFilename);
    char *sl = RegOptions.ItemPath;
    while(strstr(sl,"\\") != 0)
        sl = strstr(sl,"\\")+1;
    *sl = 0;
}
return true;
}
#endif

```

```

// Tab2M.cpp from D2E

#include "JamellaD2E.h"

/*
static DWORD WINAPI BruteForceAttack(LPVOID ThreadParameters)
{
    MagicSearchThread *P = (MagicSearchThread *)ThreadParameters;
    P->Advanced = true;

    P->Dialog = CreateDialogParam(hInstance,MAKEINTRESOURCE(IDD_TAB2S),hMainDialog,(DLGPROC) Tab2SearchDialogProc,(LPARAM) P);
    if (!P->Dialog) return -1;

    Item* I = P->Item;
    I->Busy = true;

    int MagicLevel = 0;
    if (P->PrefixMatch && P->Prefix)
        MagicLevel = max(MagicLevel,P->Prefix->ModLevel);
    if (P->SuffixMatch && P->Suffix)
        MagicLevel = max(MagicLevel,P->Suffix->ModLevel);

    I->SetMagicLevel(MagicLevel - 2);

    while(!CheckPollMessages())
    {
        I->SetDWB(I->DWB() + 1);
        I->MD->QuickDecode();
        P->Counter++;

        if (!I->Decoded) continue;

        if (P->PrefixMatch)
        {
            if (P->Prefix != I->MD->MagicPrefix) continue;

            if (P->ForcePrefixMatch[0])
                if (P->ForcePrefixValue[0] != I->MD->MagicPrefixMag[0]) continue;
            if (P->ForcePrefixMatch[1])
                if (P->ForcePrefixValue[1] != I->MD->MagicPrefixMag[1]) continue;
            if (P->ForcePrefixMatch[2])
                if (P->ForcePrefixValue[2] != I->MD->MagicPrefixMag[2]) continue;
            if (P->ForcePrefixMatch[3])
                if (P->ForcePrefixValue[3] != I->MD->MagicPrefixMag[3]) continue;
        }
        if (P->SuffixMatch)
        {
            if (P->Suffix != I->MD->MagicSuffix) continue;

            if (P->ForceSuffixMatch[0])
                if (P->ForceSuffixValue[0] != I->MD->MagicSuffixMag[0]) continue;
        }

        break;
    }

    MessageBeep(MB_ICONASTERISK);
    I->Busy = false;
    EndDialog(P->Dialog,0);
    UpdateTab2();

    CloseHandle(P->Thread);
    GlobalFree(P->ThreadData);
    return 0;
}
*/

static DWORD WINAPI BruteForceAttack(LPVOID ThreadParameters)
{
    MagicSearchThread *P = (MagicSearchThread *)ThreadParameters;
    P->Advanced = true;

    P->Dialog = CreateDialogParam(hInstance,MAKEINTRESOURCE(IDD_TAB2S),hMainDialog,(DLGPROC) Tab2SearchDialogProc, (LPARAM) P);
    if (!P->Dialog) return -1;

    Item* I = P->Item;
    I->Busy = true;

```

```

int MagicLevel = 0;
if (P->PrefixMatch && P->Prefix)
    MagicLevel = max(MagicLevel,P->Prefix->ModLevel);
if (P->SuffixMatch && P->Suffix)
    MagicLevel = max(MagicLevel,P->Suffix->ModLevel);

I->SetMagicLevel(MagicLevel - 2);

bool QuitMessage = false;

DWORD SDWB = I->DWB();

for(int MG = MagicLevel;MG == MagicLevel || (P->TraverseMagicLevels && MG <= MAXMODULELEVEL);MG++)
{
    I->SetMagicLevel(MG - 2);

    DWORD RDWB = SDWB;
    P->Counter = 0;

    while(! (QuitMessage = CheckPollMessages() ) )
    {
        if (!P->Running)
            continue;

        I->SetDWB(RDWB++);

        P->Counter++;
        if (P->Counter == 0)
            break;

        if (!I->MD->QuickDecode()) continue;

        if (P->PrefixMatch)
        {
            if (P->Prefix != I->MD->MagicPrefix) continue;

            if (P->ForcePrefixMatch[0])
                if (P->ForcePrefixValue[0] != I->MD->MagicPrefixMag[0]) continue;
            if (P->ForcePrefixMatch[1])
                if (P->ForcePrefixValue[1] != I->MD->MagicPrefixMag[1]) continue;
            if (P->ForcePrefixMatch[2])
                if (P->ForcePrefixValue[2] != I->MD->MagicPrefixMag[2]) continue;
            if (P->ForcePrefixMatch[3])
                if (P->ForcePrefixValue[3] != I->MD->MagicPrefixMag[3]) continue;
        }
        if (P->SuffixMatch)
        {
            if (P->Suffix != I->MD->MagicSuffix) continue;

            if (P->ForceSuffixMatch[0])
                if (P->ForceSuffixValue[0] != I->MD->MagicSuffixMag[0]) continue;
        }
        if (P->HitsSelection) {
            SearchHit *H = new SearchHit;
            H->MagicLevel = I->MagicLevel();
            H->DWA = I->DWA();
            H->DWB = I->DWB();
            H->List = 0;

            if (P->Hits) {
                SearchHit *S = P->Hits;
                while(S->List)
                    S = S->List;
                S->List = H;
            }
            else
                P->Hits = H;

            PostMessage(P->Dialog,WM_USER,0,0);
            MessageBeep(MB_ICONASTERISK);
        }
        else
            break;
    }
}

```

```

    if (QuitMessage) break;
}

I->Busy = false;
I->Decoded = false;

EndDialog(P->Dialog, IDOK);

if (MG >= MAXMODULEVEL || P->TraverseMagicLevels && !QuitMessage)
    MessageBox(NULL, "Searched all combinations in the scope of this item. Your desired combination is not available
on the item. Select similar attributes and try again.", PROGRAMNAME, MB_OK | MB_ICONASTERISK);
else
    MessageBeep(MB_ICONASTERISK);

UpdateTab2();
InvalidateRect(hTabDialog, NULL, FALSE);

CloseHandle(P->Thread);
for(SearchHit *H = P->Hits; H != 0;) {
    SearchHit *T = H->List;
    delete H;
    H = T;
}

GlobalFree(P->ThreadData);
return 0;
}

static bool RestrictELevel;
static int RestrictELevelValue;

inline void LoadPreSuffixTree(HWND hWnd)
{
    HWND hTV = GetDlgItem(hWnd, IDC_TAB2Magic_PrefixTree);

    TreeView_DeleteAllItems(hTV);

    TV_ITEM TVItem;
    TV_INSERTSTRUCT TVInsert;
    HTREEITEM hBranch;

    // None Entry
    {
        ZeroMemory(&TVItem, sizeof TVItem);
        TVItem.mask = TVIF_TEXT | TVIF_PARAM;
        TVItem.pszText = "None";
        TVItem.lParam = (LPARAM)-1;

        TVInsert.hParent = TVI_ROOT;
        TVInsert.hInsertAfter = TVI_LAST;
        TVInsert.item = TVItem;

        TreeView_InsertItem(hTV, &TVInsert);
    }

    for(int z=0; z<nMagicPreSuffixTree; z++)
    {
        MagicPreSuffixTree[z].hTree = 0;

        if (MagicPreSuffixTree[z].Depth > 1) continue;

        ZeroMemory(&TVItem, sizeof TVItem);
        TVItem.mask = TVIF_TEXT | TVIF_PARAM;
        TVItem.pszText = MagicPreSuffixTree[z].Text;
        TVItem.lParam = (LPARAM)-1;

        TVInsert.hParent = TVI_ROOT;
        TVInsert.hInsertAfter = TVI_LAST;
        TVInsert.item = TVItem;

        for(z++; z<nMagicPreSuffixTree; z++)
        {
            if (MagicPreSuffixTree[z].Depth < 2)
            {
                z--;
                break;
            }
        }

        // Load only Prefixes

```



```

    if (MagicPreSuffixTree[z].ModID & 256) continue;

    MagicPreSuffixTree[z].hTree = 0;

    // Check if attribute is applyable
    if ((MagicPrefixTable[MagicPreSuffixTree[z].ModID].MagicMask & SelItem->Info->MagicMask) == 0) continue;

    // Check if ELevel exceeded
    if (RestrictELevel && RestrictELevelValue < MagicPrefixTable[MagicPreSuffixTree[z].ModID].ELevel) continue;

    if (TVInsert.hParent == TVI_ROOT)
    {
        hBranch = MagicPreSuffixTree[z].hTree =
            TreeView_InsertItem(hTV,&TVInsert);
    }

    ZeroMemory(&TVItem,sizeof TVItem);
    TVItem.mask = TVIF_TEXT | TVIF_PARAM;
    TVItem.pszText = MagicPreSuffixTree[z].Text;
    TVItem.lParam = MagicPreSuffixTree[z].ModID;

    TVInsert.hParent = hBranch;
    TVInsert.hInsertAfter = TVI_LAST;
    TVInsert.item = TVItem;

    MagicPreSuffixTree[z].hTree = TreeView_InsertItem(hTV,&TVInsert);
}
}

inline void LoadSuffixTree(HWND hWnd)
{
    HWND hTV = GetDlgItem(hWnd, IDC_TAB2Magic_SuffixTree);

    TreeView_DeleteAllItems(hTV);

    TV_ITEM TVItem;
    TV_INSERTSTRUCT TVInsert;
    HTREEITEM hBranch;

    // None Entry
    {
        ZeroMemory(&TVItem,sizeof TVItem);
        TVItem.mask = TVIF_TEXT | TVIF_PARAM;
        TVItem.pszText = "None";
        TVItem.lParam = (LPARAM)-1;

        TVInsert.hParent = TVI_ROOT;
        TVInsert.hInsertAfter = TVI_LAST;
        TVInsert.item = TVItem;

        TreeView_InsertItem(hTV,&TVInsert);
    }

    for(int z=0;z<nMagicPreSuffixTree;z++)
    {
        MagicPreSuffixTree[z].hTree = 0;

        if (MagicPreSuffixTree[z].Depth > 1) continue;

        ZeroMemory(&TVItem,sizeof TVItem);
        TVItem.mask = TVIF_TEXT | TVIF_PARAM;
        TVItem.pszText = MagicPreSuffixTree[z].Text;
        TVItem.lParam = (LPARAM)-1;

        TVInsert.hParent = TVI_ROOT;
        TVInsert.hInsertAfter = TVI_LAST;
        TVInsert.item = TVItem;

        for(z++;z<nMagicPreSuffixTree;z++)
        {
            if (MagicPreSuffixTree[z].Depth < 2)
            {
                z--;
                break;
            }

            // Load only Suffixes
            if (!(MagicPreSuffixTree[z].ModID & 256)) continue;

```

```

    MagicPreSuffixTree[z].hTree = 0;

    // Check if attributes is applyable
    if ((MagicSuffixTable[MagicPreSuffixTree[z].ModID & 0xFF].MagicMask & SelItem->Info->MagicMask) == 0)
        continue;

    // Check if ELevel exceeded
    if (RestrictELevel && RestrictELevelValue < MagicSuffixTable[MagicPreSuffixTree[z].ModID & 0xFF].ELevel) con
tinue;

    if (TVInsert.hParent == TVI_ROOT)
    {
        hBranch = MagicPreSuffixTree[z].hTree =
            TreeView_InsertItem(hTV,&TVInsert);
    }

    ZeroMemory(&TVItem,sizeof TVItem);
    TVItem.mask = TVIF_TEXT | TVIF_PARAM;
    TVItem.pszText = MagicPreSuffixTree[z].Text;
    TVItem.lParam = MagicPreSuffixTree[z].ModID;

    TVInsert.hParent = hBranch;
    TVInsert.hInsertAfter = TVI_LAST;
    TVInsert.item = TVItem;

    MagicPreSuffixTree[z].hTree = TreeView_InsertItem(hTV,&TVInsert);
}
}
}

inline void EnablePrefixControls(HWND hWnd,int enable)
{
    EnableWindow(GetDlgItem(hWnd,IDC_TAB2Magic_PrefixTree),enable);
}
inline void EnableSuffixControls(HWND hWnd,int enable)
{
    EnableWindow(GetDlgItem(hWnd,IDC_TAB2Magic_SuffixTree),enable);
}

struct
{
    int MatchBox;
    int Slider;
    int Min;
    int Max;
    bool ForceMatch;
    int ForceValue;
}
PrefixControls[] =
{
    { IDC_TAB2Magic_Prefix1Match, IDC_TAB2Magic_Prefix1Value, IDC_TAB2Magic_Prefix1ValueMin, IDC_TAB2Magic_Prefix1ValueMax }
    ,
    { IDC_TAB2Magic_Prefix2Match, IDC_TAB2Magic_Prefix2Value, IDC_TAB2Magic_Prefix2ValueMin, IDC_TAB2Magic_Prefix2ValueMax }
    ,
    { IDC_TAB2Magic_Prefix3Match, IDC_TAB2Magic_Prefix3Value, IDC_TAB2Magic_Prefix3ValueMin, IDC_TAB2Magic_Prefix3ValueMax }
    ,
    { IDC_TAB2Magic_Prefix4Match, IDC_TAB2Magic_Prefix4Value, IDC_TAB2Magic_Prefix4ValueMin, IDC_TAB2Magic_Prefix4ValueMax }
    ;
};

struct
{
    int MatchBox;
    int Slider;
    int Min;
    int Max;
    bool ForceMatch;
    int ForceValue;
}
SuffixControls[] =
{
    { IDC_TAB2Magic_Suffix1Match, IDC_TAB2Magic_Suffix1Value, IDC_TAB2Magic_Suffix1ValueMin, IDC_TAB2Magic_Suffix1ValueMax }
    ;
};

void EnablePrefixControls(HWND hWnd,int Controls,int enable)
{
    if (Controls < 0)

```

```

{
    for(int z=0;z<4;z++)
    {
        EnableWindow(GetDlgItem(hWnd,PrefixControls[z].Slider),enable);
        EnableWindow(GetDlgItem(hWnd,PrefixControls[z].Min),enable);
        EnableWindow(GetDlgItem(hWnd,PrefixControls[z].Max),enable);
    }
}
else
{
    EnableWindow(GetDlgItem(hWnd,PrefixControls[Controls].Slider),enable);
    EnableWindow(GetDlgItem(hWnd,PrefixControls[Controls].Min),enable);
    EnableWindow(GetDlgItem(hWnd,PrefixControls[Controls].Max),enable);
}
}

void EnableSuffixControls(HWND hWnd,int Controls,int enable)
{
    if (Controls < 0)
    {
        for(int z=0;z<4;z++)
        {
            EnableWindow(GetDlgItem(hWnd,SuffixControls[z].Slider),enable);
            EnableWindow(GetDlgItem(hWnd,SuffixControls[z].Min),enable);
            EnableWindow(GetDlgItem(hWnd,SuffixControls[z].Max),enable);
        }
    }
    else
    {
        EnableWindow(GetDlgItem(hWnd,SuffixControls[Controls].Slider),enable);
        EnableWindow(GetDlgItem(hWnd,SuffixControls[Controls].Min),enable);
        EnableWindow(GetDlgItem(hWnd,SuffixControls[Controls].Max),enable);
    }
}

static bool PrefixMatch = false;
static int PrefixTree;
static _MagicPreSuffix *Prefix;

static bool SuffixMatch = false;
static int SuffixTree;
static _MagicPreSuffix *Suffix;

static int OrigModLevel;

static DWORD SearchAverage()
{
    int MagicLevel = 0;
    if (PrefixMatch && Prefix)
        MagicLevel = max(MagicLevel,Prefix->ModLevel);
    if (SuffixMatch && Suffix)
        MagicLevel = max(MagicLevel,Suffix->ModLevel);

    SelItem->SetMagicLevel(MagicLevel - 2);

    SelItem->MD->BuildMagicBuffers();

    DWORDLONG Average = 1;

    if (PrefixMatch)
    {
        Average *= 2 * SelItem->MD->nPrefixBuffer;

        if (Prefix)
        for(int z=0;z<4;z++)
        {
            if (!PrefixControls[z].ForceMatch) continue;
            if (Prefix->Mod[z].Code == 0) continue;

            Average *= Prefix->Mod[z].Max - Prefix->Mod[z].Min;
        }
    }

    if (SuffixMatch)
    {
        Average *= 2 * SelItem->MD->nSuffixBuffer;

        if (Suffix)

```

```

for(int z=0;z<1;z++)
{
    if (!SuffixControls[z].ForceMatch) continue;
    if (Suffix->Mod[z].Code == 0) continue;

    Average *= Suffix->Mod[z].Max - Suffix->Mod[z].Min;
}
}
return DWORD(Average/2 +1);
}

static void UpdateTab2Magic(HWND hWnd)
{
    for(int n=0;n<4;n++)
    {
        char *nth = n == 0 ? "1st" :
                    n == 1 ? "2nd" :
                    n == 2 ? "3rd" : "4th";

        if (!PrefixMatch || !Prefix || !Prefix->Mod[n].Code)
        {
            EnableWindow(GetDlgItem(hWnd,PrefixControls[n].MatchBox),FALSE);
            CheckDlgButton(hWnd,PrefixControls[n].MatchBox,BST_UNCHECKED);

            EnablePrefixControls(hWnd,n,FALSE);

            sprintf(buffer,"No %s Prefix Effect",nth);
            SetDlgItemText(hWnd,PrefixControls[n].MatchBox,buffer);

            SendDlgItemMessage(hWnd,PrefixControls[n].Slider,TBM_SETPOS,TRUE,0);
            SetDlgItemText(hWnd,PrefixControls[n].Min,"");
            SetDlgItemText(hWnd,PrefixControls[n].Max,"");

            PrefixControls[n].ForceMatch = 0;
            PrefixControls[n].ForceValue = 0;
        }
        else if (Prefix->Mod[n].Max - Prefix->Mod[n].Min <= 0)
        {
            EnableWindow(GetDlgItem(hWnd,PrefixControls[n].MatchBox),FALSE);
            CheckDlgButton(hWnd,PrefixControls[n].MatchBox,BST_UNCHECKED);
            EnablePrefixControls(hWnd,n,FALSE);

            sprintf(buffer,"%s Prefix Effect fixed to %i",nth,Prefix->Mod[n].Min);
            SetDlgItemText(hWnd,PrefixControls[n].MatchBox,buffer);

            SendDlgItemMessage(hWnd,PrefixControls[n].Slider,TBM_SETPOS,TRUE,0);
            SetDlgItemInt(hWnd,PrefixControls[n].Min,Prefix->Mod[n].Min,0);
            SetDlgItemInt(hWnd,PrefixControls[n].Max,Prefix->Mod[n].Max-1,0);

            PrefixControls[n].ForceMatch = 0;
            PrefixControls[n].ForceValue = 0;
        }
        else
        {
            EnableWindow(GetDlgItem(hWnd,PrefixControls[n].MatchBox),TRUE);

            if (PrefixControls[n].ForceMatch)
            {
                EnablePrefixControls(hWnd,n,TRUE);

                sprintf(buffer,"Force Value of %s Prefix Effect to %i",nth,Prefix->Mod[n].Min + PrefixControls[n].ForceV
alue);

                SetDlgItemText(hWnd,PrefixControls[n].MatchBox,buffer);

                SetDlgItemInt(hWnd,PrefixControls[n].Min,Prefix->Mod[n].Min,0);
                SetDlgItemInt(hWnd,PrefixControls[n].Max,Prefix->Mod[n].Max-1,0);

                SendDlgItemMessage(hWnd,PrefixControls[n].Slider,TBM_SETRANGE,TRUE,
                    MAKELONG(0,Prefix->Mod[n].Max - Prefix->Mod[n].Min -1));
                SendDlgItemMessage(hWnd,PrefixControls[n].Slider,TBM_SETPOS,TRUE,PrefixControls[n].ForceValue);
            }
            else
            {
                EnablePrefixControls(hWnd,n,FALSE);

                sprintf(buffer,"Force Value of %s Prefix Effect",nth);
                SetDlgItemText(hWnd,PrefixControls[n].MatchBox,buffer);

                SendDlgItemMessage(hWnd,PrefixControls[n].Slider,TBM_SETPOS,TRUE,0);
            }
        }
    }
}

```

```

        SetDlgItemInt(hWnd,PrefixControls[n].Min,Prefix->Mod[n].Min,0);
        SetDlgItemInt(hWnd,PrefixControls[n].Max,Prefix->Mod[n].Max-1,0);
    }
}
for(n=0;n<1;n++)
{
    char *nth = n == 0 ? "1st" :
                n == 1 ? "2nd" :
                n == 2 ? "3rd" : "4th";

    if (!SuffixMatch || !Suffix || !Suffix->Mod[n].Code)
    {
        EnableWindow(GetDlgItem(hWnd,SuffixControls[n].MatchBox),FALSE);
        CheckDlgButton(hWnd,SuffixControls[n].MatchBox,BST_UNCHECKED);

        EnableSuffixControls(hWnd,n,FALSE);

        sprintf(buffer,"No %s Suffix Effect",nth);
        SetDlgItemText(hWnd,SuffixControls[n].MatchBox,buffer);

        SendDlgItemMessage(hWnd,SuffixControls[n].Slider,TBM_SETPOS,TRUE,0);
        SetDlgItemText(hWnd,SuffixControls[n].Min,"");
        SetDlgItemText(hWnd,SuffixControls[n].Max,"");

        SuffixControls[n].ForceMatch = 0;
        SuffixControls[n].ForceValue = 0;
    }
    else if (Suffix->Mod[n].Max - Suffix->Mod[n].Min <= 0)
    {
        EnableWindow(GetDlgItem(hWnd,SuffixControls[n].MatchBox),FALSE);
        CheckDlgButton(hWnd,SuffixControls[n].MatchBox,BST_UNCHECKED);
        EnableSuffixControls(hWnd,n,FALSE);

        sprintf(buffer,"%s Suffix Effect fixed to %i",nth,Suffix->Mod[n].Min);
        SetDlgItemText(hWnd,SuffixControls[n].MatchBox,buffer);

        SendDlgItemMessage(hWnd,SuffixControls[n].Slider,TBM_SETPOS,TRUE,0);
        SetDlgItemInt(hWnd,SuffixControls[n].Min,Suffix->Mod[n].Min,0);
        SetDlgItemInt(hWnd,SuffixControls[n].Max,Suffix->Mod[n].Max-1,0);

        SuffixControls[n].ForceMatch = 0;
        SuffixControls[n].ForceValue = 0;
    }
    else
    {
        EnableWindow(GetDlgItem(hWnd,SuffixControls[n].MatchBox),TRUE);

        if (SuffixControls[n].ForceMatch)
        {
            EnableSuffixControls(hWnd,n,TRUE);

            sprintf(buffer,"Force Value of %s Suffix Effect to %i",nth,Suffix->Mod[n].Min + SuffixControls[n].ForceV
alue);
            SetDlgItemText(hWnd,SuffixControls[n].MatchBox,buffer);

            SetDlgItemInt(hWnd,SuffixControls[n].Min,Suffix->Mod[n].Min,0);
            SetDlgItemInt(hWnd,SuffixControls[n].Max,Suffix->Mod[n].Max-1,0);

            SendDlgItemMessage(hWnd,SuffixControls[n].Slider,TBM_SETRANGE,TRUE,
                MAKELONG(0,Suffix->Mod[n].Max - Suffix->Mod[n].Min -1));
            SendDlgItemMessage(hWnd,SuffixControls[n].Slider,TBM_SETPOS,TRUE,SuffixControls[n].ForceValue);
        }
        else
        {
            EnableSuffixControls(hWnd,n,FALSE);

            sprintf(buffer,"Force Value of %s Suffix Effect",nth);
            SetDlgItemText(hWnd,SuffixControls[n].MatchBox,buffer);

            SendDlgItemMessage(hWnd,SuffixControls[n].Slider,TBM_SETPOS,TRUE,0);

            SetDlgItemInt(hWnd,SuffixControls[n].Min,Suffix->Mod[n].Min,0);
            SetDlgItemInt(hWnd,SuffixControls[n].Max,Suffix->Mod[n].Max-1,0);
        }
    }
}
}

```

```

{
    DWORDLONG Average = SearchAverage();

    if (Average < 0)
        SetDlgItemText(hWnd, IDC_TAB2Magic_Average, "Combination can possibly never be found!");
    else
    {
        sprintf(buffer, "Average Tries: %lu", Average);
        SetDlgItemText(hWnd, IDC_TAB2Magic_Average, buffer);
    }
}

{ // Update ELevel Requirements

    int ELevel = 0;

    if (Prefix) {
        if (Prefix->ELevel > ELevel)
            ELevel = Prefix->ELevel;
    }

    if (Suffix) {
        if (Suffix->ELevel > ELevel)
            ELevel = Suffix->ELevel;
    }

    SetDlgItemInt(hWnd, IDC_TAB2Magic_CurrentELevel, ELevel, FALSE);
} // Update ELevel Requirements
}

void UpdateTab2MagicTrees(HWND hWnd)
{
    LoadPreSuffixTree(hWnd);
    LoadSuffixTree(hWnd);

    if (RestrictELevel)
    {
        CheckDlgButton(hWnd, IDC_TAB2Magic_LockELevel, TRUE);
        EnableWindow(GetDlgItem(hWnd, IDC_TAB2Magic_LockValue), TRUE);
        SetDlgItemInt(hWnd, IDC_TAB2Magic_LockValue, RestrictELevelValue, FALSE);
    }
    else {
        CheckDlgButton(hWnd, IDC_TAB2Magic_LockELevel, FALSE);
        EnableWindow(GetDlgItem(hWnd, IDC_TAB2Magic_LockValue), FALSE);
    }
}

LRESULT CALLBACK Tab2MagicDialogProc(HWND hWnd, UINT uMsg, WPARAM wParam, LPARAM lParam)
{
    switch(uMsg)
    {
    case WM_INITDIALOG:
    {
        SendDlgItemMessage(hWnd, IDC_HELP, BM_SETIMAGE, IMAGE_ICON, (LPARAM) hIconHelp);

        RestrictELevel = true;
        RestrictELevelValue = fc.gf.level;
        UpdateTab2MagicTrees(hWnd);

        PrefixMatch = false;
        PrefixControls[0].ForceMatch = false;
        PrefixControls[1].ForceMatch = false;
        PrefixControls[2].ForceMatch = false;
        PrefixControls[3].ForceMatch = false;
        EnablePrefixControls(hWnd, FALSE);

        SuffixMatch = false;
        SuffixControls[0].ForceMatch = false;
        EnableSuffixControls(hWnd, FALSE);

        OrigModLevel = SelItem->MagicLevel();

        UpdateTab2Magic(hWnd);
    }
    return true;
    case WM_COMMAND:
    {
        switch(LOWORD(wParam))

```

```

{
case IDOK:
{
    // Check Combination
    {
        if (PrefixMatch && SuffixMatch)
        {
            if (!Prefix && !Suffix)
            {
                MessageBox(hWnd, "You must select either a Prefix or a Suffix.", PROGRAMNAME, MB_OK | MB_IC
ONSTOP);

                break;
            }
        }
    }

    SelItem->DWBHistory.StepAdd(SelItem);

    HGLOBAL TD = GlobalAlloc(GMEM_ZEROINIT, sizeof MagicSearchThread);
    struct MagicSearchThread* NewThread = (MagicSearchThread*)GlobalLock(TD);
    NewThread->ThreadData = TD;

    NewThread->Item = SelItem;

    NewThread->PrefixMatch = PrefixMatch;
    NewThread->Prefix = Prefix;
    NewThread->SuffixMatch = SuffixMatch;
    NewThread->Suffix = Suffix;

    NewThread->ForcePrefixMatch[0] = PrefixControls[0].ForceMatch;
    NewThread->ForcePrefixMatch[1] = PrefixControls[1].ForceMatch;
    NewThread->ForcePrefixMatch[2] = PrefixControls[2].ForceMatch;
    NewThread->ForcePrefixMatch[3] = PrefixControls[3].ForceMatch;
    NewThread->ForcePrefixValue[0] = PrefixControls[0].ForceValue;
    NewThread->ForcePrefixValue[1] = PrefixControls[1].ForceValue;
    NewThread->ForcePrefixValue[2] = PrefixControls[2].ForceValue;
    NewThread->ForcePrefixValue[3] = PrefixControls[3].ForceValue;

    NewThread->ForceSuffixMatch[0] = SuffixControls[0].ForceMatch;
    NewThread->ForceSuffixValue[0] = SuffixControls[0].ForceValue;

    DWORD ThreadID;
    NewThread->Thread = CreateThread(NULL, 0, &BruteForceAttack, NewThread, 0, &ThreadID);

    EndDialog(hWnd, IDOK);
}
break;
case IDCANCEL:
    SelItem->SetMagicLevel(OrigModLevel);
    EndDialog(hWnd, IDCANCEL);
    break;
case IDC_TAB2Magic_PrefixMatch:
    if (HIWORD(wParam) == BN_CLICKED)
    {
        if (IsDlgButtonChecked(hWnd, IDC_TAB2Magic_PrefixMatch) == BST_CHECKED)
        {
            EnablePrefixControls(hWnd, TRUE);
            PrefixMatch = true;
        }
        else
        {
            EnablePrefixControls(hWnd, FALSE);
            PrefixMatch = false;
        }
        UpdateTab2Magic(hWnd);
    }
    break;
case IDC_TAB2Magic_SuffixMatch:
    if (HIWORD(wParam) == BN_CLICKED)
    {
        if (IsDlgButtonChecked(hWnd, IDC_TAB2Magic_SuffixMatch) == BST_CHECKED)
        {
            EnableSuffixControls(hWnd, TRUE);
            SuffixMatch = true;
        }
        else
        {
            EnableSuffixControls(hWnd, FALSE);
            SuffixMatch = false;
        }
    }
}
}

```

```

    }
    UpdateTab2Magic(hWnd);
}
break;
case IDC_TAB2Magic_Prefix1Match:
case IDC_TAB2Magic_Prefix2Match:
case IDC_TAB2Magic_Prefix3Match:
case IDC_TAB2Magic_Prefix4Match:
    if (HIWORD(wParam) == BN_CLICKED)
    {
        int n = LOWORD(wParam)-IDC_TAB2Magic_Prefix1Match;

        if (IsDlgButtonChecked(hWnd,LOWORD(wParam)) == BST_CHECKED)
            PrefixControls[n].ForceMatch = true;
        else
            PrefixControls[n].ForceMatch = false;

        PrefixControls[n].ForceValue = 0;

        UpdateTab2Magic(hWnd);
    }
    break;
case IDC_TAB2Magic_Suffix1Match:
    if (HIWORD(wParam) == BN_CLICKED)
    {
        if (IsDlgButtonChecked(hWnd,LOWORD(wParam)) == BST_CHECKED)
            SuffixControls[0].ForceMatch = true;
        else
            SuffixControls[0].ForceMatch = false;

        SuffixControls[0].ForceValue = 0;

        UpdateTab2Magic(hWnd);
    }
    break;
case IDC_TAB2Magic_LockELevel:
    if (HIWORD(wParam) == BN_CLICKED)
    {
        if (IsDlgButtonChecked(hWnd,LOWORD(wParam)) == BST_UNCHECKED)
            RestrictELevel = true;
        else
            RestrictELevel = false;

        UpdateTab2MagicTrees(hWnd);
    }
    break;
case IDC_TAB2Magic_LockValue:
    if (HIWORD(wParam) == EN_KILLFOCUS)
    {
        if (IsDlgButtonChecked(hWnd,IDC_TAB2Magic_LockELevel) == BST_CHECKED) {
            int x = GetDlgItemInt(hWnd,IDC_TAB2Magic_LockValue,NULL,FALSE);
            if (x != RestrictELevelValue) {
                RestrictELevelValue = x;
                UpdateTab2MagicTrees(hWnd);
            }
        }
    }
    break;
case IDC_CHELP:
    ToggleHelpBox(hWnd, IDH_TAB2Magic);
    break;
case IDC_TAB2Magic_Clear:
    {
        PrefixMatch = false;
        PrefixControls[0].ForceMatch = false;
        PrefixControls[1].ForceMatch = false;
        PrefixControls[2].ForceMatch = false;
        PrefixControls[3].ForceMatch = false;
        EnablePrefixControls(hWnd,FALSE);

        SuffixMatch = false;
        SuffixControls[0].ForceMatch = false;
        EnableSuffixControls(hWnd,FALSE);

        CheckDlgButton(hWnd, IDC_TAB2Magic_PrefixMatch,PrefixMatch);
        CheckDlgButton(hWnd, IDC_TAB2Magic_SuffixMatch,SuffixMatch);

        UpdateTab2Magic(hWnd);
    }
}

```



```

        break;
    }
}
return false;
case WM_NOTIFY:
    switch(((NMHDR*)lParam)->idFrom)
    {
    case IDC_TAB2Magic_PrefixTree:
        switch(((NMHDR*)lParam)->code)
        {
        case TVN_SELCHANGED:
            {
                NM_TREEVIEW *NMTreeView = (NM_TREEVIEW*) lParam;

                PrefixTree = NMTreeView->itemNew.lParam;
                if (PrefixTree >= 0)
                {
                    Prefix = &MagicPrefixTable[PrefixTree];
                    PrefixControls[0].ForceValue = 0;
                    PrefixControls[1].ForceValue = 0;
                    PrefixControls[2].ForceValue = 0;
                    PrefixControls[3].ForceValue = 0;
                }
                else
                    Prefix = 0;

                UpdateTab2Magic(hWnd);
            }
            break;
        }
        break;
    case IDC_TAB2Magic_SuffixTree:
        switch(((NMHDR*)lParam)->code)
        {
        case TVN_SELCHANGED:
            {
                NM_TREEVIEW *NMTreeView = (NM_TREEVIEW*) lParam;

                SuffixTree = NMTreeView->itemNew.lParam;
                if (SuffixTree >= 0)
                {
                    Suffix = &MagicSuffixTable[SuffixTree & 0xFF];
                    SuffixControls[0].ForceValue = 0;
                }
                else
                    Suffix = 0;

                UpdateTab2Magic(hWnd);
            }
            break;
        }
        break;
    }
return false;
case WM_HSCROLL:
    if ((HWND)lParam == GetDlgItem(hWnd, IDC_TAB2Magic_Prefix1Value))
    {
        PrefixControls[0].ForceValue = SendMessage((HWND)lParam, TBM_GETPOS, 0, 0);
        UpdateTab2Magic(hWnd);
    }
    if ((HWND)lParam == GetDlgItem(hWnd, IDC_TAB2Magic_Prefix2Value))
    {
        PrefixControls[1].ForceValue = SendMessage((HWND)lParam, TBM_GETPOS, 0, 0);
        UpdateTab2Magic(hWnd);
    }
    if ((HWND)lParam == GetDlgItem(hWnd, IDC_TAB2Magic_Prefix3Value))
    {
        PrefixControls[2].ForceValue = SendMessage((HWND)lParam, TBM_GETPOS, 0, 0);
        UpdateTab2Magic(hWnd);
    }
    if ((HWND)lParam == GetDlgItem(hWnd, IDC_TAB2Magic_Prefix4Value))
    {
        PrefixControls[3].ForceValue = SendMessage((HWND)lParam, TBM_GETPOS, 0, 0);
        UpdateTab2Magic(hWnd);
    }
    if ((HWND)lParam == GetDlgItem(hWnd, IDC_TAB2Magic_Suffix1Value))
    {
        SuffixControls[0].ForceValue = SendMessage((HWND)lParam, TBM_GETPOS, 0, 0);
        UpdateTab2Magic(hWnd);
    }

```

```
    }  
    break;  
case WM_CLOSE:  
    {  
        SelItem->SetMagicLevel(OrigModLevel);  
        EndDialog(hWnd, IDCANCEL);  
    }  
    return false;  
case WM_DESTROY:  
    {  
        CloseHelpBox();  
    }  
    return false;  
}  
return false;  
}
```

```

// Tab2ItemList.cpp from D2E
#include "JamellaD2E.h"

HWND hItemListBox;

void UpdateTab2ItemList()
{
    if (!hItemListBox) return;

    HWND hItemList = GetDlgItem(hItemListBox, IDC_TAB2ItemList);

    SendMessage(hItemList, LB_RESETCONTENT, 0, 0);

    for(Item *I = Items; I != 0; I = I->Next())
    {
        int ix = SendMessage(hItemList, LB_ADDSTRING, 0, (LPARAM)I->Name());
        SendMessage(hItemList, LB_SETITEMDATA, ix, (LPARAM) I);

        if (I == SelItem)
            SendMessage(hItemList, LB_SETCURSEL, ix, 0);
    }
}

LRESULT CALLBACK Tab2ItemListDialogProc(HWND hWnd, UINT uMsg, WPARAM wParam, LPARAM lParam)
{
    switch(uMsg)
    {
    case WM_INITDIALOG:
        {
            RECT rWindow, DialogPos;
            GetWindowRect(hWnd, &rWindow);

            GetWindowRect(hMainDialog, &DialogPos);
            DialogPos.left -= rWindow.right - rWindow.left;

            SetWindowPos(hWnd, HWND_TOP,
                DialogPos.left, DialogPos.top,
                0, 0, SWP_NOSIZE | SWP_NOACTIVATE);
        }

        CheckDlgButton(hExpertBox, IDC_TAB2E_ItemList, BST_CHECKED);

        hItemListBox = hWnd;
        UpdateTab2ItemList();

        ShowWindow(hWnd, SW_SHOWNOACTIVATE);
    }
    return true;
    case WM_COMMAND:
        if (LOWORD(wParam) == IDC_TAB2ItemList && HIWORD(wParam) == LBN_SELCHANGE) {

            int ix = SendDlgItemMessage(hWnd, IDC_TAB2ItemList, LB_GETCURSEL, 0, 0);
            SelItem = (Item *)SendDlgItemMessage(hWnd, IDC_TAB2ItemList, LB_GETITEMDATA, ix, 0);
            UpdateTab2();
            InvalidateRect(hTabDialog, NULL, FALSE);

        }
        return false;
    case WM_CLOSE:
        {
            if (hItemListBox)
                DestroyWindow(hItemListBox);
        }
        return false;
    case WM_DESTROY:
        {
            CheckDlgButton(hExpertBox, IDC_TAB2E_ItemList, BST_UNCHECKED);
            hItemListBox = 0;
        }
        return false;
    }
    return false;
}

```

```

// Tab2R.cpp from D2E

#include "JamellaD2E.h"

// Tab2R ToolBox
HWND hRandomBox;
int RandomBoxDW;

void UpdateTab2Rnd()
{
    if (!hRandomBox) return;

    if (SelItem)
    {
        char output[2048] = "";

        RAND s,r = { 0, 666 };
        int x;

        if (RandomBoxDW == 0)
        {
            r.Seed = SelItem->DWA();
            x = -1;
        }
        else
        {
            r.Seed = SelItem->DWB();
            x = StartRandoms(SelItem,&s);
        }

        for(int z=0;z<50;z++)
        {
            sprintf(buffer,"%2d: %08X %08X\r\n",z+1,r.Seed,r.Carry);
            strcat(output,buffer);
            if (x == z)
                strcat(output,"Prefix:\r\n");

            Random(&r);
        }

        SetDlgItemText(hRandomBox, IDC_TAB2Rnd_Edit, output);
    }
    else
    {
        SetDlgItemText(hRandomBox, IDC_TAB2Rnd_Edit, "");
    }
}

LRESULT CALLBACK Tab2RndDialogProc(HWND hWnd,UINT uMsg,WPARAM wParam,LPARAM lParam)
{
    switch(uMsg)
    {
        case WM_INITDIALOG:
        {
            {
                RECT rWindow,DialogPos;
                GetWindowRect(hWnd,&rWindow);

                GetWindowRect(hMainDialog,&DialogPos);
                DialogPos.left -= rWindow.right - rWindow.left;

                SetWindowPos(hWnd,HWND_TOP,
                    DialogPos.left,DialogPos.top,
                    0,0,SWP_NOSIZE | SWP_NOACTIVATE);
            }

            ShowWindow(hWnd,SW_SHOWNOACTIVATE);
        }
        return true;
        case WM_COMMAND:
        {
        }
        return false;
        case WM_CLOSE:
        {
            if (hRandomBox)
                DestroyWindow(hRandomBox);
        }
        return false;
    }
}

```

```
case WM_DESTROY:  
    {  
        CheckDlgButton(hExpertBox, IDC_TAB2E_RandA, BST_UNCHECKED);  
        CheckDlgButton(hExpertBox, IDC_TAB2E_RandB, BST_UNCHECKED);  
        hRandomBox = 0;  
    }  
    return false;  
}  
return false;  
}
```

```

// Tab2Rare.cpp from D2E

#include "JamellaD2E.h"

HCURSOR hCurAdd;
static HWND hTVP,hTVS,hList;
static bool userselecting = false;

static bool RestrictELevel;
static int RestrictELevelValue;

#define ZEROATTR -4
#define RANDOMATTR -5

static DWORD WINAPI BruteForceAttack(LPVOID ThreadParameters)
{
    RareSearchThread *P = (RareSearchThread *)ThreadParameters;
    P->Advanced = true;

    P->Dialog = CreateDialogParam(hInstance,MAKEINTRESOURCE(IDD_TAB2S),hMainDialog,(DLGPROC) Tab2SearchDialogProc, (LPARAM) P);
    if (!P->Dialog) return -1;

    Item* I = P->Item;
    I->Busy = true;

    int MagicLevel = 0;
    for(int z=0;z<6;z++)
    {
        if (!P->Attribute[z]) continue;
        MagicLevel = max(MagicLevel,P->Attribute[z]->ModLevel);
    }

    int nModMin = 0,nModMax = 0;
    // Precalculate Modifier Number Range
    {
        for(int z=0;z<6;z++)
        {
            if (P->iAttribute[z] == RANDOMATTR) {
                nModMax++;
            }
            if (!P->Attribute[z]) continue;
            nModMin++;
            nModMax++;
        }
    }

    bool QuitMessage = false;

    DWORD SDWB = I->DWB();

    for(int MG = MagicLevel;MG == MagicLevel || (P->TraverseMagicLevels && MG <= MAXMODLEVEL);MG++)
    {
        I->SetMagicLevel(MG - 2);

        DWORD RDWB = SDWB;
        P->Counter = 0;

        while(! (QuitMessage = CheckPollMessages() ) )
        {
            if (!P->Running)
                continue;

            I->SetDWB(RDWB++);

            P->Counter++;
            if (P->Counter == 0)
                break;

            if (!I->MD->QuickDecode()) continue;

            if (P->NamePrefix >= 0)
                if (I->MD->RarePrefix != &RarePrefixTable[P->NamePrefix]) continue;

            if (P->NameSuffix >= 0)
                if (I->MD->RareSuffix != &RareSuffixTable[P->NameSuffix]) continue;

            if (nModMin > I->MD->nRareFix) continue;
            if (nModMax < I->MD->nRareFix) continue;
        }
    }
}

```

```

int z;
for(z=0;z<6;z++)
{
    if (!P->Attribute[z]) continue;

    int m;
    for(m=0;m<6;m++)
    {
        if (!I->MD->RareFix[m]) continue;
        if (I->MD->RareFix[m] == P->Attribute[z])
            break;
    }
    if (m == 6) break;
}
if (z == 6) {

    if (P->HitsSelection) {

        SearchHit *H = new SearchHit;
        H->MagicLevel = I->MagicLevel();
        H->DWA = I->DWA();
        H->DWB = I->DWB();
        H->List = 0;

        if (P->Hits) {

            SearchHit *S = P->Hits;
            while(S->List)
            {
                S = S->List;
                S->List = H;
            }
            else
                P->Hits = H;

            PostMessage(P->Dialog,WM_USER,0,0);
            MessageBeep(MB_ICONASTERISK);
        }
        else
            break;
    }
}

if (QuitMessage) break;
}

I->Busy = false;
I->Decoded = false;

EndDialog(P->Dialog, IDOK);

if (MG >= MAXMODULELEVEL || P->TraverseMagicLevels && !QuitMessage)
    MessageBox(NULL, "Searched all combinations in the scope of this item. Your desired combination is not available
on the item. Select similar attributes and try again.", PROGRAMNAME, MB_OK | MB_ICONASTERISK);
else
    MessageBeep(MB_ICONASTERISK);

UpdateTab2();
InvalidateRect(hTabDialog, NULL, FALSE);

CloseHandle(P->Thread);
for(SearchHit *H = P->Hits; H != 0;) {
    SearchHit *T = H->List;
    delete H;
    H = T;
}

GlobalFree(P->ThreadData);
return 0;
}

inline void LoadNamePrefixTree(HWND hWnd)
{
    HWND hList = GetDlgItem(hWnd, IDC_TAB2Rare_NamePrefix);

    SendMessage(hList, LB_RESETCONTENT, 0, 0);

    for(int z=0;z<nRarePrefixTable;z++)
    {

```

```

    if (RarePrefixTable[z].Text == 0) continue;
    if ((RarePrefixTable[z].RareMask & SelItem->Info->RareMask) == 0) continue;

    int index = SendMessage(hList, LB_ADDSTRING, 0, (DWORD) RarePrefixTable[z].Text);
    SendMessage(hList, LB_SETITEMDATA, index, (DWORD) z);
}

SendMessage(hList, LB_INSERTSTRING, 0, (DWORD) "unspecified");
SendMessage(hList, LB_SETITEMDATA, 0, (DWORD) -1);
SendMessage(hList, LB_SETSEL, TRUE, 0);
}
inline void LoadNameSuffixTree(HWND hWnd)
{
    HWND hList = GetDlgItem(hWnd, IDC_TAB2Rare_NameSuffix);

    SendMessage(hList, LB_RESETCONTENT, 0, 0);

    for(int z=0; z<nRareSuffixTable; z++)
    {
        if (RareSuffixTable[z].Text == 0) continue;
        if ((RareSuffixTable[z].RareMask & SelItem->Info->RareMask) == 0) continue;

        int index = SendMessage(hList, LB_ADDSTRING, 0, (DWORD) RareSuffixTable[z].Text);
        SendMessage(hList, LB_SETITEMDATA, index, (DWORD) z);
    }

    SendMessage(hList, LB_INSERTSTRING, 0, (DWORD) "unspecified");
    SendMessage(hList, LB_SETITEMDATA, 0, (DWORD) -1);
    SendMessage(hList, LB_SETSEL, TRUE, 0);
}
inline void LoadAttributesTree(HWND hWnd)
{
    hTVP = GetDlgItem(hWnd, IDC_TAB2Rare_TreePrefix);
    hTVS = GetDlgItem(hWnd, IDC_TAB2Rare_TreeSuffix);

    TreeView_DeleteAllItems(hTVP);
    TreeView_DeleteAllItems(hTVS);

    TV_ITEM TVItem;
    TV_INSERTSTRUCT TVInsert;
    HTREEITEM hBranch;

    HTREEITEM hPrefix;
    // Prefix Entry
    {
        ZeroMemory(&TVItem, sizeof TVItem);
        TVItem.mask = TVIF_TEXT | TVIF_PARAM | TVIF_STATE;
        TVItem.pszText = "Prefix";
        TVItem.lParam = (LPARAM)-1;
        TVItem.state = TVIS_EXPANDED;
        TVItem.stateMask = TVIS_EXPANDED;

        TVInsert.hParent = 0;
        TVInsert.hInsertAfter = TVI_ROOT;
        TVInsert.item = TVItem;

        hPrefix = TreeView_InsertItem(hTVP, &TVInsert);
    }

    // None Entry
    {
        ZeroMemory(&TVItem, sizeof TVItem);
        TVItem.mask = TVIF_TEXT | TVIF_PARAM;
        TVItem.pszText = "Zero Attribute";
        TVItem.lParam = (LPARAM)ZEROATTR;

        TVInsert.hParent = hPrefix;
        TVInsert.hInsertAfter = TVI_LAST;
        TVInsert.item = TVItem;

        TreeView_InsertItem(hTVP, &TVInsert);
    }

    // Random Entry
    {
        ZeroMemory(&TVItem, sizeof TVItem);
        TVItem.mask = TVIF_TEXT | TVIF_PARAM;
        TVItem.pszText = "Random Attribute";
        TVItem.lParam = (LPARAM)RANDOMATTR;
    }
}

```



```

    TVInsert.hParent = hPrefix;
    TVInsert.hInsertAfter = TVI_LAST;
    TVInsert.item = TVItem;

    TreeView_InsertItem(hTVP,&TVInsert);
}

for(int z=0;z<nMagicPreSuffixTree;z++)
    MagicPreSuffixTree[z].hTree = 0;

for(z=0;z<nMagicPreSuffixTree;z++)
{
    if (MagicPreSuffixTree[z].Depth > 1) continue;

    ZeroMemory(&TVItem,sizeof TVItem);
    TVItem.mask = TVIF_TEXT | TVIF_PARAM;
    TVItem.pszText = MagicPreSuffixTree[z].Text;
    TVItem.lParam = (LPARAM)-1;

    TVInsert.hParent = hPrefix;
    TVInsert.hInsertAfter = TVI_LAST;
    TVInsert.item = TVItem;

    for(z++;z<nMagicPreSuffixTree;z++)
    {
        if (MagicPreSuffixTree[z].Depth < 2)
        {
            z--;
            break;
        }

        if (MagicPreSuffixTree[z].ModID & 256) continue;

        if ((MagicPrefixTable[MagicPreSuffixTree[z].ModID & 0xFF].MagicMask & SelItem->Info->MagicMask) == 0) continue;

        // Check if ELevel exceeded
        if (RestrictELevel && RestrictELevelValue < MagicPrefixTable[MagicPreSuffixTree[z].ModID].ELevel) continue;

        if (TVInsert.hParent == hPrefix)
        {
            hBranch = MagicPreSuffixTree[z].hTree =
                TreeView_InsertItem(hTVP,&TVInsert);
        }

        ZeroMemory(&TVItem,sizeof TVItem);
        TVItem.mask = TVIF_TEXT | TVIF_PARAM;
        TVItem.pszText = MagicPreSuffixTree[z].Text;
        TVItem.lParam = MagicPreSuffixTree[z].ModID;

        TVInsert.hParent = hBranch;
        TVInsert.hInsertAfter = TVI_LAST;
        TVInsert.item = TVItem;

        MagicPreSuffixTree[z].hTree = TreeView_InsertItem(hTVP,&TVInsert);
    }
}

HTREEITEM hSuffix;
// Suffix Entry
{
    ZeroMemory(&TVItem,sizeof TVItem);
    TVItem.mask = TVIF_TEXT | TVIF_PARAM | TVIF_STATE;
    TVItem.pszText = "Suffix";
    TVItem.lParam = (LPARAM)-1;
    TVItem.state = TVIS_EXPANDED;
    TVItem.stateMask = TVIS_EXPANDED;

    TVInsert.hParent = 0;
    TVInsert.hInsertAfter = TVI_ROOT;
    TVInsert.item = TVItem;

    hSuffix = TreeView_InsertItem(hTVS,&TVInsert);
}

// None Entry
{
    ZeroMemory(&TVItem,sizeof TVItem);

```

```

TVItem.mask = TVIF_TEXT | TVIF_PARAM;
TVItem.pszText = "Zero Attribute";
TVItem.lParam = (LPARAM)ZEROATTR;

TVInsert.hParent = hSuffix;
TVInsert.hInsertAfter = TVI_LAST;
TVInsert.item = TVItem;

TreeView_InsertItem(hTVS,&TVInsert);
}

// Random Entry
{
ZeroMemory(&TVItem,sizeof TVItem);
TVItem.mask = TVIF_TEXT | TVIF_PARAM;
TVItem.pszText = "Random Attribute";
TVItem.lParam = (LPARAM)RANDOMATTR;

TVInsert.hParent = hSuffix;
TVInsert.hInsertAfter = TVI_LAST;
TVInsert.item = TVItem;

TreeView_InsertItem(hTVS,&TVInsert);
}

for(z=0;z<nMagicPreSuffixTree;z++)
{
if (MagicPreSuffixTree[z].Depth > 1) continue;

ZeroMemory(&TVItem,sizeof TVItem);
TVItem.mask = TVIF_TEXT | TVIF_PARAM;
TVItem.pszText = MagicPreSuffixTree[z].Text;
TVItem.lParam = (LPARAM)-1;

TVInsert.hParent = hSuffix;
TVInsert.hInsertAfter = TVI_LAST;
TVInsert.item = TVItem;

for(z++;z<nMagicPreSuffixTree;z++)
{
if (MagicPreSuffixTree[z].Depth < 2)
{
z--;
break;
}

if (!(MagicPreSuffixTree[z].ModID & 256)) continue;

if ((MagicSuffixTable[MagicPreSuffixTree[z].ModID & 0xFF].MagicMask & SelItem->Info->MagicMask) == 0) continue;

// Check if ELevel exceeded
if (RestrictELevel && RestrictELevelValue < MagicSuffixTable[MagicPreSuffixTree[z].ModID & 0xFF].ELevel) continue;

if (TVInsert.hParent == hSuffix)
{
hBranch = MagicPreSuffixTree[z].hTree =
TreeView_InsertItem(hTVS,&TVInsert);
}

ZeroMemory(&TVItem,sizeof TVItem);
TVItem.mask = TVIF_TEXT | TVIF_PARAM;
TVItem.pszText = MagicPreSuffixTree[z].Text;
TVItem.lParam = MagicPreSuffixTree[z].ModID;

TVInsert.hParent = hBranch;
TVInsert.hInsertAfter = TVI_LAST;
TVInsert.item = TVItem;

MagicPreSuffixTree[z].hTree = TreeView_InsertItem(hTVS,&TVInsert);
}
}
}

static int SaveModLevel;
static int SearchNamePrefix,SearchNameSuffix;

static struct

```

```

{
    int          CheckID;
    int          TextID;
    _MagicPreSuffix *Selected;
    int          iSelected;
    bool         tSelected;
}
Attribute[6] =
{
    { IDC_TAB2Rare_Check1, IDC_TAB2Rare_Text1 },
    { IDC_TAB2Rare_Check2, IDC_TAB2Rare_Text2 },
    { IDC_TAB2Rare_Check3, IDC_TAB2Rare_Text3 },
    { IDC_TAB2Rare_Check4, IDC_TAB2Rare_Text4 },
    { IDC_TAB2Rare_Check5, IDC_TAB2Rare_Text5 },
    { IDC_TAB2Rare_Check6, IDC_TAB2Rare_Text6 },
};

static int          UserSelected;

static DWORD SearchAverage()
{
    int MagicLevel = 0;
    for(int z=0;z<6;z++)
    {
        if (!Attribute[z].Selected) continue;
        MagicLevel = max(MagicLevel,Attribute[z].Selected->ModLevel);
    }
    SelItem->SetMagicLevel(MagicLevel - 2);

    SelItem->MD->BuildMagicBuffers();
    SelItem->MD->BuildRareBuffers();

    DWORDLONG Average = 1;

    if (SearchNamePrefix >= 0)
        Average *= SelItem->MD->nRarePrefixBuffer;

    if (SearchNameSuffix >= 0)
        Average *= SelItem->MD->nRareSuffixBuffer;

    for(z=0;z<6;z++)
    {
        if (!Attribute[z].Selected) continue;

        if (Attribute[z].tSelected == PREFIX)
            Average *= 2 * SelItem->MD->nPrefixBuffer;
        if (Attribute[z].tSelected == SUFFIX)
            Average *= 2 * SelItem->MD->nSuffixBuffer;
    }

    return DWORD(Average/2 +1);
}

void UpdateTab2Rare(HWND hWnd)
{
    for(int z=0;z<6;z++)
    {
        if (UserSelected == z)
            CheckDlgButton(hWnd,Attribute[z].CheckID,BST_CHECKED);
        else
            CheckDlgButton(hWnd,Attribute[z].CheckID,BST_UNCHECKED);

        if (Attribute[z].iSelected == ZEROATTR) {
            SetDlgItemText(hWnd,Attribute[z].CheckID,"Zero Attribute");
            SetDlgItemText(hWnd,Attribute[z].TextID,"");
        }
        else if (Attribute[z].iSelected == RANDOMATTR) {
            SetDlgItemText(hWnd,Attribute[z].CheckID,"Random Attribute");
            SetDlgItemText(hWnd,Attribute[z].TextID,"");
        }
        else if (Attribute[z].Selected) {
            SetDlgItemText(hWnd,Attribute[z].CheckID,Attribute[z].Selected->Text);
            SetDlgItemText(hWnd,Attribute[z].TextID,Attribute[z].Selected->Description);
        }
        else {
            SetDlgItemText(hWnd,Attribute[z].CheckID,"Error!!!");
            SetDlgItemText(hWnd,Attribute[z].TextID,"");
        }
    }
}

```

```

// Display Average
{
    DWORDLONG Average = SearchAverage();

    if (Average < 0)
        SetDlgItemText(hWnd, IDC_TAB2Rare_Average, "Combination can possibly never be found!");
    else
    {
        sprintf(buffer, "Average Tries: %lu", Average);
        SetDlgItemText(hWnd, IDC_TAB2Rare_Average, buffer);
    }
}

{ // Update ELevel Requirements

    int ELevel = 0;

    for(int z=0; z<6; z++)
    {
        if (Attribute[z].Selected) {
            if (Attribute[z].Selected->ELevel > ELevel)
                ELevel = Attribute[z].Selected->ELevel;
        }
    }

    SetDlgItemInt(hWnd, IDC_TAB2Rare_CurrentELevel, ELevel, FALSE);

} // Update ELevel Requirements

if (RestrictELevel)
{
    CheckDlgButton(hWnd, IDC_TAB2Rare_LockELevel, TRUE);
    EnableWindow(GetDlgItem(hWnd, IDC_TAB2Rare_LockValue), TRUE);
    SetDlgItemInt(hWnd, IDC_TAB2Rare_LockValue, RestrictELevelValue, FALSE);
}
else {
    CheckDlgButton(hWnd, IDC_TAB2Rare_LockELevel, FALSE);
    EnableWindow(GetDlgItem(hWnd, IDC_TAB2Rare_LockValue), FALSE);
}
}

static void TVMakeSelection(HWND hWnd, int n)
{
    for(int z=0; z<nMagicPreSuffixTree; z++)
    {
        if (MagicPreSuffixTree[z].ModID == n && MagicPreSuffixTree[z].hTree) {

            userselecting = true;

            if (MagicPreSuffixTree[z].ModID & 256) {
                TreeView_SelectItem(hTVP, 0);
                TreeView_SelectItem(hTVS, MagicPreSuffixTree[z].hTree);
            }
            else {
                TreeView_SelectItem(hTVP, MagicPreSuffixTree[z].hTree);
                TreeView_SelectItem(hTVS, 0);
            }

            userselecting = false;
            break;
        }
    }
}

static bool    MouseDraging = false;
static TV_ITEM MouseDragItem;

LRESULT CALLBACK Tab2RareDialogProc(HWND hWnd, UINT uMsg, WPARAM wParam, LPARAM lParam)
{
    switch(uMsg)
    {
        case WM_INITDIALOG:
        {
            SendDlgItemMessage(hWnd, IDC_CHELP, BM_SETIMAGE, IMAGE_ICON, (LPARAM) hIconHelp);

            SaveModLevel = SelItem->MagicLevel();
        }
    }
}

```

```

UserSelected = 0;

LoadNamePrefixTree(hWnd);
LoadNameSuffixTree(hWnd);
LoadAttributesTree(hWnd);

RestrictELevel = true;
RestrictELevelValue = fc.gf.level;

if (SelItem->MD->Decode())
{
    SearchNamePrefix = FindRareNamePrefixByPointer(SelItem->MD->RarePrefix);
    SearchNameSuffix = FindRareNameSuffixByPointer(SelItem->MD->RareSuffix);

    if (SearchNamePrefix >= 0)
        SendDlgItemMessage(hWnd, IDC_TAB2Rare_NamePrefix, LB_SELECTSTRING, -1, (LPARAM)RarePrefixTable[SearchNamePrefix].Text);
    if (SearchNameSuffix >= 0)
        SendDlgItemMessage(hWnd, IDC_TAB2Rare_NameSuffix, LB_SELECTSTRING, -1, (LPARAM)RareSuffixTable[SearchNameSuffix].Text);

    for(int z=0;z<6;z++)
    {
        if (SelItem->MD->RareFix[z]) {
            Attribute[z].Selected = SelItem->MD->RareFix[z];
            Attribute[z].tSelected = SelItem->MD->tRareFix[z];
            Attribute[z].iSelected = FindMagicPreSuffixByPointer(Attribute[z].tSelected,Attribute[z].Selected);
        }
        else {
            Attribute[z].Selected = 0;
            Attribute[z].iSelected = ZEROATTR;
            Attribute[z].tSelected = PREFIX;
        }
    }
}
else {
    SearchNamePrefix = SearchNameSuffix = -1;

    for(int z=0;z<6;z++)
    {
        Attribute[z].Selected = 0;
        Attribute[z].iSelected = RANDOMATTR;
        Attribute[z].tSelected = PREFIX;
    }
}

UpdateTab2Rare(hWnd);
}
return true;
case WM_COMMAND:
{
    switch(LOWORD(wParam))
    {
        case IDOK:
        {
            // Get Name Pre- and Suffixes
            {
                int index = SendDlgItemMessage(hWnd, IDC_TAB2Rare_NamePrefix, LB_GETCURSEL, 0, 0);
                if (index < 0)
                {
                    MessageBox("You must select a Name Prefix!");
                    return false;
                }
                SearchNamePrefix = SendDlgItemMessage(hWnd, IDC_TAB2Rare_NamePrefix, LB_GETITEMDATA, index, 0);

                index = SendDlgItemMessage(hWnd, IDC_TAB2Rare_NameSuffix, LB_GETCURSEL, 0, 0);
                if (index < 0)
                {
                    MessageBox("You must select a Name Suffix!");
                    return false;
                }
                SearchNameSuffix = SendDlgItemMessage(hWnd, IDC_TAB2Rare_NameSuffix, LB_GETITEMDATA, index, 0);
            }

            // Check Prefix / Suffix Combinations
            {
                int n = 0;

```

```

int nPrefix=0,nSuffix=0;
for(int z=0;z<6;z++)
{
    if (Attribute[z].iSelected == RANDOMATTR) {
        n++;
        continue;
    }
    if (!Attribute[z].Selected) continue;
    if (Attribute[z].tSelected == PREFIX) nPrefix++;
    if (Attribute[z].tSelected == SUFFIX) nSuffix++;
    n++;
}

if (nPrefix > 3)
{
    MessageBox("There can only be 3 Prefixes!");
    return false;
}
if (nSuffix > 3)
{
    MessageBox("There can only be 3 Suffixes!");
    return false;
}
if (n < 4)
{
    MessageBox("There must be at least 4 Attributes!");
    return false;
}

for(z=0;z<6;z++)
{
    if (!Attribute[z].Selected) continue;
    for(int y=z-1;y>=0;y--)
    {
        if (!Attribute[y].Selected) continue;
        if (Attribute[z].Selected->Group == Attribute[y].Selected->Group)
        {
            MessageBox("Duplicate Attribute Group found!");
            return false;
        }
    }
}

SelItem->DWBHistory.StepAdd(SelItem);

HGLOBAL TD = GlobalAlloc(GMEM_ZEROINIT,sizeof RareSearchThread);
struct RareSearchThread* NewThread = (RareSearchThread*)GlobalLock(TD);;
NewThread->ThreadData = TD;

NewThread->Item = SelItem;

NewThread->NamePrefix = SearchNamePrefix;
NewThread->NameSuffix = SearchNameSuffix;

for(int z=0;z<6;z++)
{
    NewThread->Attribute[z] = Attribute[z].Selected;

    NewThread->iAttribute[z] = Attribute[z].iSelected;
    if (NewThread->iAttribute[z] >= 0)
        NewThread->iAttribute[z] &= 256;

    NewThread->tAttribute[z] = Attribute[z].tSelected;
}

DWORD ThreadID;
NewThread->Thread = CreateThread(NULL,0,&BruteForceAttack,NewThread,0,&ThreadID);

EndDialog(hWnd,IDOK);
}
break;
case IDCANCEL:
    SelItem->SetMagicLevel(SaveModLevel);
    EndDialog(hWnd,IDCANCEL);
    break;
case IDC_TAB2Rare_NamePrefix:
    if (HIWORD(wParam) == LBN_SELCHANGE)

```

```

    {
        int index = SendDlgItemMessage(hWnd, IDC_TAB2Rare_NamePrefix, LB_GETCURSEL, 0, 0);
        SearchNamePrefix = SendDlgItemMessage(hWnd, IDC_TAB2Rare_NamePrefix, LB_GETITEMDATA, index, 0);
        UpdateTab2Rare(hWnd);
    }
    break;
case IDC_TAB2Rare_NameSuffix:
    if (HIWORD(wParam) == LBN_SELCHANGE)
    {
        int index = SendDlgItemMessage(hWnd, IDC_TAB2Rare_NameSuffix, LB_GETCURSEL, 0, 0);
        SearchNameSuffix = SendDlgItemMessage(hWnd, IDC_TAB2Rare_NameSuffix, LB_GETITEMDATA, index, 0);
        UpdateTab2Rare(hWnd);
    }
    break;
case IDC_TAB2Rare_Check1:
    if (HIWORD(wParam) == BN_CLICKED) {
        UserSelected = 0;
        TVMakeSelection(hWnd, Attribute[UserSelected].iSelected);
        UpdateTab2Rare(hWnd);
    }
    break;
case IDC_TAB2Rare_Check2:
    if (HIWORD(wParam) == BN_CLICKED) {
        UserSelected = 1;
        TVMakeSelection(hWnd, Attribute[UserSelected].iSelected);
        UpdateTab2Rare(hWnd);
    }
    break;
case IDC_TAB2Rare_Check3:
    if (HIWORD(wParam) == BN_CLICKED) {
        UserSelected = 2;
        TVMakeSelection(hWnd, Attribute[UserSelected].iSelected);
        UpdateTab2Rare(hWnd);
    }
    break;
case IDC_TAB2Rare_Check4:
    if (HIWORD(wParam) == BN_CLICKED) {
        UserSelected = 3;
        TVMakeSelection(hWnd, Attribute[UserSelected].iSelected);
        UpdateTab2Rare(hWnd);
    }
    break;
case IDC_TAB2Rare_Check5:
    if (HIWORD(wParam) == BN_CLICKED) {
        UserSelected = 4;
        TVMakeSelection(hWnd, Attribute[UserSelected].iSelected);
        UpdateTab2Rare(hWnd);
    }
    break;
case IDC_TAB2Rare_Check6:
    if (HIWORD(wParam) == BN_CLICKED) {
        UserSelected = 5;
        TVMakeSelection(hWnd, Attribute[UserSelected].iSelected);
        UpdateTab2Rare(hWnd);
    }
    break;
case IDC_TAB2Rare_LockELevel:
    if (HIWORD(wParam) == BN_CLICKED)
    {
        if (IsDlgButtonChecked(hWnd, LOWORD(wParam)) == BST_UNCHECKED)
            RestrictELevel = true;
        else
            RestrictELevel = false;

        LoadAttributesTree(hWnd);
        UpdateTab2Rare(hWnd);
        TVMakeSelection(hWnd, Attribute[UserSelected].iSelected);
    }
    break;
case IDC_TAB2Rare_LockValue:
    if (HIWORD(wParam) == EN_KILLFOCUS)
    {
        if (IsDlgButtonChecked(hWnd, IDC_TAB2Rare_LockELevel) == BST_CHECKED) {
            int x = GetDlgItemInt(hWnd, IDC_TAB2Rare_LockValue, NULL, FALSE);
            if (x != RestrictELevelValue) {
                RestrictELevelValue = x;
                LoadAttributesTree(hWnd);
                UpdateTab2Rare(hWnd);
                TVMakeSelection(hWnd, Attribute[UserSelected].iSelected);
            }
        }
    }
}

```

```

        }
    }
    }
    break;
case IDC_CHELP:
    ToggleHelpBox(hWnd, IDH_TAB2Rare);
    break;
case IDC_TAB2Rare_Clear:
    {
        SendDlgItemMessage(hWnd, IDC_TAB2Rare_NamePrefix, LB_SETCURSEL, 0, 0);
        SendDlgItemMessage(hWnd, IDC_TAB2Rare_NameSuffix, LB_SETCURSEL, 0, 0);

        SearchNamePrefix = 0;
        SearchNameSuffix = 0;

        for(int z=0; z<6; z++)
        {
            Attribute[z].Selected = 0;
            Attribute[z].iSelected = ZEROATTR;
            Attribute[z].tSelected = PREFIX;
        }

        UserSelected = 0;
        TVMakeSelection(hWnd, Attribute[UserSelected].iSelected);
        UpdateTab2Rare(hWnd);
    }
    break;
}
}
return false;
case WM_NOTIFY:
    switch(((NMHDR*)lParam)->idFrom)
    {
        case IDC_TAB2Rare_TreePrefix:
        case IDC_TAB2Rare_TreeSuffix:
            switch(((NMHDR*)lParam)->code)
            {
                case TVN_SELCHANGED:
                    {
                        if (userselecting) break;
                        userselecting = true;
                        NM_TREEVIEW *NMTreeView = (NM_TREEVIEW *) lParam;

                        if (UserSelected >= 0 && UserSelected <= 5) {
                            int n = UserSelected;

                            if (NMTreeView->itemNew.lParam >= 0)
                            {
                                Attribute[n].iSelected = NMTreeView->itemNew.lParam;

                                if ((Attribute[n].iSelected & 256) == 0) {
                                    Attribute[n].tSelected = PREFIX;
                                    Attribute[n].Selected = &MagicPrefixTable[Attribute[n].iSelected];
                                    TreeView_SelectItem(hTVS, NULL);
                                }
                                else {
                                    Attribute[n].tSelected = SUFFIX;
                                    Attribute[n].Selected = &MagicSuffixTable[Attribute[n].iSelected & 255];
                                    TreeView_SelectItem(hTVP, NULL);
                                }
                            }
                            else if (NMTreeView->itemNew.lParam == ZEROATTR || NMTreeView->itemNew.lParam == RANDOMATTR)
                            {
                                Attribute[n].iSelected = NMTreeView->itemNew.lParam;
                                Attribute[n].tSelected = PREFIX;
                                Attribute[n].Selected = 0;
                            }
                        }
                        UpdateTab2Rare(hWnd);
                    }
                    userselecting = false;
            }
            break;
    }
}
return false;
case WM_CLOSE:
    {
        SelItem->SetMagicLevel(SaveModLevel);
    }
}

```



```
        EndDialog(hWnd, IDCANCEL);
    }
    return false;
case WM_DESTROY:
    {
        CloseHelpBox();
    }
    return false;
}
return false;
}
```

```

#include "JamellaD2E.h"

const struct
{
    char    *Text;
    int     PriorityID;
    int     ClassID;
}
Priorities[] =
{
    { "Idle",          THREAD_PRIORITY_IDLE,          IDLE_PRIORITY_CLASS },
    { "Lowest",       THREAD_PRIORITY_LOWEST,       NORMAL_PRIORITY_CLASS },
    { "Below Normal", THREAD_PRIORITY_BELOW_NORMAL,    NORMAL_PRIORITY_CLASS },
    { "Normal",       THREAD_PRIORITY_NORMAL,        NORMAL_PRIORITY_CLASS },
    { "Above Normal", THREAD_PRIORITY_ABOVE_NORMAL,    HIGH_PRIORITY_CLASS },
    { "Highest",     THREAD_PRIORITY_HIGHEST,      HIGH_PRIORITY_CLASS },
    { "Time Critical", THREAD_PRIORITY_TIME_CRITICAL, REALTIME_PRIORITY_CLASS }
};

const int nPriorities = 7;

LRESULT CALLBACK Tab2SearchDialogProc(HWND hWnd,UINT uMsg,WPARAM wParam,LPARAM lParam)
{
    switch(uMsg)
    {
    case WM_INITDIALOG:
        {
            // Save Parameter
            SetWindowLong(hWnd,GWL_USERDATA,(DWORD) lParam);
            SearchThread *P = (SearchThread *)lParam;
            P->Running = true;

            // Start Timer
            SetTimer(hWnd, IDT_TIMER,SEARCHPOLLER,NULL);
            PostMessage(hWnd,WM_TIMER, IDT_TIMER,0);

            SendDlgItemMessage(hWnd, IDC_CHELP, BM_SETIMAGE, IMAGE_ICON, (LPARAM) hIconHelp);

            // Simple Box Controls
            if (!P->Advanced)
            {
                // Setup Progress Bar
                SendDlgItemMessage(hWnd, IDC_TAB2SS_Scope, PEM_SETRANGE, 0, MAKELPARAM(0,16384));
                SendDlgItemMessage(hWnd, IDC_TAB2SS_Scope, PEM_SETBARCOLOR, 0, PROGRESSCOLOR);
                SendDlgItemMessage(hWnd, IDC_TAB2SS_Scope, PEM_SETPOS, 0, 0);
            }
            else
            {
                // Advanced Box Controls

                // Setup Progress Bar
                SendDlgItemMessage(hWnd, IDC_TAB2SA_Scope, PEM_SETRANGE, 0, MAKELPARAM(0,16384));
                SendDlgItemMessage(hWnd, IDC_TAB2SA_Scope, PEM_SETBARCOLOR, 0, PROGRESSCOLOR);
                SendDlgItemMessage(hWnd, IDC_TAB2SA_Scope, PEM_SETPOS, 0, 0);

                // Setup Priority Slider
                SendDlgItemMessage(hWnd, IDC_TAB2SA_Slider, TBM_SETRANGE, 1, MAKELONG(0,nPriorities-1));
                SendDlgItemMessage(hWnd, IDC_TAB2SA_Slider, TBM_SETPOS, 1, 3);
            }

            // Show Windows
            ShowWindow(hWnd,SW_SHOW);

            InvalidateRect(hTabDialog,NULL,FALSE);
        }
        return true;
    case WM_TIMER:
        switch(wParam)
        {
        case IDT_TIMER:
            {
                SearchThread *P = (SearchThread *)GetWindowLong(hWnd,GWL_USERDATA);
                if (!P) break;
                if (!P->Item) break;

                char strbuffer[32];
                sprintf(strbuffer,"%lu Tries",P->Counter);

                if (!P->Advanced)
                {

```



```

        SetDlgItemText(hWnd, IDC_TAB2SA_Stop, "Stop Search");
        EnableWindow(GetDlgItem(hWnd, IDC_TAB2SA_HitList), FALSE);
        P->Running = true;
    }
    else {
        P->HitsSelection = true;
        SetDlgItemText(hWnd, IDC_TAB2SA_Stop, "Pause Search");
        EnableWindow(GetDlgItem(hWnd, IDC_TAB2SA_HitList), TRUE);
    }

    CheckDlgButton(hWnd, LOWORD(wParam), P->HitsSelection);
}
break;
case IDC_TAB2SA_HitList:
    if (HIWORD(wParam) == LBN_SELCHANGE && P)
    {
        P->Running = false;
        SetDlgItemText(hWnd, IDC_TAB2SA_Stop, "Continue Search");

        int ix = SendDlgItemMessage(hWnd, LOWORD(wParam), LB_GETCURSEL, 0, 0);
        SearchHit *H = (SearchHit*)SendDlgItemMessage(hWnd, LOWORD(wParam), LB_GETITEMDATA, ix, 0);

        P->Item->SetMagicLevel(H->MagicLevel);
        P->Item->SetDWA(H->DWA);
        P->Item->SetDWB(H->DWB);
        P->Item->Decoded = false;
        UpdateTab2();
        InvalidateRect(hTabDialog, NULL, FALSE);
    }
    else if (HIWORD(wParam) == LBN_DBLCLK && P)
    {
        P->Running = false;
        SetDlgItemText(hWnd, IDC_TAB2SA_Stop, "Continue Search");

        int ix = SendDlgItemMessage(hWnd, LOWORD(wParam), LB_GETCURSEL, 0, 0);
        SearchHit *H = (SearchHit*)SendDlgItemMessage(hWnd, LOWORD(wParam), LB_GETITEMDATA, ix, 0);

        P->Item->SetMagicLevel(H->MagicLevel);
        P->Item->SetDWA(H->DWA);
        P->Item->SetDWB(H->DWB);
        P->Item->Decoded = false;
        PostQuitMessage(IDOK);
    }
    break;
case IDC_CHELP:
    ToggleHelpBox(hWnd, IDH_TAB2S);
    break;
}
}
return false;
case WM_USER:
{
    SearchThread *P = (SearchThread *)GetWindowLong(hWnd, GWL_USERDATA);
    if (!P) break;

    SendDlgItemMessage(hWnd, IDC_TAB2SA_HitList, LB_RESETCONTENT, 0, 0);
    for(SearchHit *H = P->Hits; H != 0; H = H->List)
    {
        char buffer[64];
        sprintf(buffer, "MG %i | DWB %8X", H->MagicLevel, H->DWB);
        int ix = SendDlgItemMessage(hWnd, IDC_TAB2SA_HitList, LB_ADDSTRING, 0, (LPARAM)buffer);
        SendDlgItemMessage(hWnd, IDC_TAB2SA_HitList, LB_SETITEMDATA, ix, (LPARAM)H);
    }
}
return false;
case WM_HSCROLL:
    if ((HWND)lParam == GetDlgItem(hWnd, IDC_TAB2SA_Slider))
    {
        SearchThread *P = (SearchThread *)GetWindowLong(hWnd, GWL_USERDATA);
        int Prior = SendMessage((HWND)lParam, TEM_GETPOS, 0, 0);

        SetDlgItemText(hWnd, IDC_TAB2SA_Priority, Priorities[Prior].Text);
        // if (!SetPriorityClass(GetCurrentProcess(), Priorities[Prior].ClassID))
        //     ErrorMessage();
        if (!SetThreadPriority(P->Thread, Priorities[Prior].PriorityID))
            ErrorMessage();
    }
}
break;
case WM_CLOSE:

```

```
        PostQuitMessage(IDOK);  
        return false;  
    case WM_DESTROY:  
        return false;  
    }  
    return false;  
}
```

```
// Tab3.cpp from D2E
```

```
#include "JamellaD2E.h"
```

```
char *groups[5][3] =
```

```
{
    { "Javelin and Spear Skills", "Passive and Magic Skills", "Box and Crossbow Skills" },
    { "Cold Spells", "Lightning Spells", "Fire Spells" },
    { "Summoning Spells", "Posion and Bone Spells", "Curses" },
    { "Defensive Auras", "Offensive Auras", "Combat Skills" },
    { "Warcries", "Combat Masteries", "Combat Skills" }
};
```

```
struct skill skills[5*30] =
```

```
{
// 0 = Amazon
    { 5, "Jab", IDS_SKILL_A05, IDB_SKILL_A04 },
    { 9, "Power Strike", IDS_SKILL_A09, IDB_SKILL_A09 },
    { 10, "Poison Javelin", IDS_SKILL_A10, IDB_SKILL_A10 },
    { 14, "Impale", IDS_SKILL_A14, IDB_SKILL_A14 },
    { 15, "Lightning Bolt", IDS_SKILL_A15, IDB_SKILL_A15 },
    { 19, "Charged Bolt", IDS_SKILL_A19, IDB_SKILL_A19 },
    { 20, "Plague Javelin", IDS_SKILL_A20, IDB_SKILL_A20 },
    { 25, "Fend", IDS_SKILL_A25, IDB_SKILL_A25 },
    { 29, "Lightning Strike", IDS_SKILL_A29, IDB_SKILL_A29 },
    { 30, "Lightning Fury", IDS_SKILL_A30, IDB_SKILL_A30 },

    { 3, "Inner Sight", IDS_SKILL_A03, IDB_SKILL_A03 },
    { 4, "Critical Strike", IDS_SKILL_A04, IDB_SKILL_A04 },
    { 8, "Dodge", IDS_SKILL_A08, IDB_SKILL_A08 },
    { 12, "Slow Missiles", IDS_SKILL_A12, IDB_SKILL_A12 },
    { 13, "Avoid", IDS_SKILL_A13, IDB_SKILL_A13 },
    { 18, "Penetrate", IDS_SKILL_A18, IDB_SKILL_A18 },
    { 23, "Decoy", IDS_SKILL_A23, IDB_SKILL_A23 },
    { 24, "Evade", IDS_SKILL_A24, IDB_SKILL_A24 },
    { 27, "Valkyrie", IDS_SKILL_A27, IDB_SKILL_A27 },
    { 28, "Pierce", IDS_SKILL_A28, IDB_SKILL_A28 },

    { 1, "Magic Arrow", IDS_SKILL_A01, IDB_SKILL_A01 },
    { 2, "Fire Arrow", IDS_SKILL_A02, IDB_SKILL_A02 },
    { 6, "Cold Arrow", IDS_SKILL_A06, IDB_SKILL_A06 },
    { 7, "Multiple Shots", IDS_SKILL_A07, IDB_SKILL_A07 },
    { 11, "Exploding Arrow", IDS_SKILL_A11, IDB_SKILL_A11 },
    { 16, "Ice Arrow", IDS_SKILL_A16, IDB_SKILL_A16 },
    { 17, "Guided Arrow", IDS_SKILL_A17, IDB_SKILL_A17 },
    { 21, "Strafe", IDS_SKILL_A21, IDB_SKILL_A21 },
    { 22, "Immolation Arrow", IDS_SKILL_A22, IDB_SKILL_A22 },
    { 26, "Freezing Arrow", IDS_SKILL_A26, IDB_SKILL_A26 },

// 1 = Sorceress
    { 4, "Ice Bolt", IDS_SKILL_S04, IDB_SKILL_S04 },
    { 5, "Frozen Armor", IDS_SKILL_S05, IDB_SKILL_S05 },
    { 9, "Frost Nova", IDS_SKILL_S09, IDB_SKILL_S09 },
    { 10, "Ice Blast", IDS_SKILL_S10, IDB_SKILL_S10 },
    { 15, "Shiver Armor", IDS_SKILL_S15, IDB_SKILL_S15 },
    { 20, "Glacial Spike", IDS_SKILL_S20, IDB_SKILL_S20 },
    { 24, "Blizzard", IDS_SKILL_S24, IDB_SKILL_S24 },
    { 25, "Chilling Armor", IDS_SKILL_S25, IDB_SKILL_S25 },
    { 29, "Frozen Orb", IDS_SKILL_S29, IDB_SKILL_S29 },
    { 30, "Cold Mastery", IDS_SKILL_S30, IDB_SKILL_S30 },

    { 3, "Charged Bolt", IDS_SKILL_S03, IDB_SKILL_S03 },
    { 7, "Static Field", IDS_SKILL_S07, IDB_SKILL_S07 },
    { 8, "Telekinesis", IDS_SKILL_S08, IDB_SKILL_S08 },
    { 13, "Nova", IDS_SKILL_S13, IDB_SKILL_S13 },
    { 14, "Lightning", IDS_SKILL_S14, IDB_SKILL_S14 },
    { 18, "Chain Lightning", IDS_SKILL_S18, IDB_SKILL_S18 },
    { 19, "Teleport", IDS_SKILL_S19, IDB_SKILL_S19 },
    { 22, "Thunder Storm", IDS_SKILL_S22, IDB_SKILL_S22 },
    { 23, "Energy Shield", IDS_SKILL_S23, IDB_SKILL_S23 },
    { 28, "Lightning Mastery", IDS_SKILL_S28, IDB_SKILL_S28 },

    { 1, "Fire Bolt", IDS_SKILL_S01, IDB_SKILL_S01 },
    { 2, "Warmth", IDS_SKILL_S02, IDB_SKILL_S02 },
    { 6, "Inferno", IDS_SKILL_S06, IDB_SKILL_S06 },
    { 11, "Blaze", IDS_SKILL_S11, IDB_SKILL_S11 },
    { 12, "Fire Ball", IDS_SKILL_S12, IDB_SKILL_S12 },
    { 16, "Fire Wall", IDS_SKILL_S16, IDB_SKILL_S16 },
    { 17, "Enchant", IDS_SKILL_S17, IDB_SKILL_S17 },
    { 21, "Meteor", IDS_SKILL_S21, IDB_SKILL_S21 }
};
```

```

{ 26, "Fire Mastery",      IDS_SKILL_S26, IDB_SKILL_S26 },
{ 27, "Hydra",            IDS_SKILL_S27, IDB_SKILL_S27 },

// 2 = Necromancer
{ 4, "Skeleton Mastery",  IDS_SKILL_N04, IDB_SKILL_N04 },
{ 5, "Raise Skeleton",    IDS_SKILL_N05, IDB_SKILL_N05 },
{ 10, "Clay Golem",       IDS_SKILL_N10, IDB_SKILL_N10 },
{ 14, "Golem Mastery",    IDS_SKILL_N14, IDB_SKILL_N14 },
{ 15, "Raise Skeletal Mage", IDS_SKILL_N15, IDB_SKILL_N15 },
{ 20, "Blood Golem",      IDS_SKILL_N20, IDB_SKILL_N20 },
{ 24, "Summon Resist",    IDS_SKILL_N24, IDB_SKILL_N24 },
{ 25, "Iron Golem",       IDS_SKILL_N25, IDB_SKILL_N25 },
{ 29, "Fire Golem",       IDS_SKILL_N29, IDB_SKILL_N29 },
{ 30, "Revive",           IDS_SKILL_N30, IDB_SKILL_N30 },

{ 2, "Teeth",             IDS_SKILL_N02, IDB_SKILL_N02 },
{ 3, "Bone Armor",        IDS_SKILL_N03, IDB_SKILL_N03 },
{ 8, "Poison Dagger",     IDS_SKILL_N08, IDB_SKILL_N08 },
{ 9, "Corpse Explosion",  IDS_SKILL_N09, IDB_SKILL_N09 },
{ 13, "Bone Wall",        IDS_SKILL_N13, IDB_SKILL_N13 },
{ 18, "Poison Explosion", IDS_SKILL_N18, IDB_SKILL_N18 },
{ 19, "Bone Spear",       IDS_SKILL_N19, IDB_SKILL_N19 },
{ 23, "Bone Prison",      IDS_SKILL_N23, IDB_SKILL_N23 },
{ 27, "Poison Nova",      IDS_SKILL_N27, IDB_SKILL_N27 },
{ 28, "Bone Spirit",      IDS_SKILL_N28, IDB_SKILL_N28 },

{ 1, "Amplify Damage",    IDS_SKILL_N01, IDB_SKILL_N01 },
{ 6, "Dim Vision",        IDS_SKILL_N06, IDB_SKILL_N06 },
{ 7, "Weaken",            IDS_SKILL_N07, IDB_SKILL_N07 },
{ 11, "Iron Maiden",      IDS_SKILL_N11, IDB_SKILL_N11 },
{ 12, "Terror",           IDS_SKILL_N12, IDB_SKILL_N12 },
{ 16, "Confuse",          IDS_SKILL_N16, IDB_SKILL_N16 },
{ 17, "Life Tap",         IDS_SKILL_N17, IDB_SKILL_N17 },
{ 21, "Attract",          IDS_SKILL_N21, IDB_SKILL_N21 },
{ 22, "Decrepify",        IDS_SKILL_N22, IDB_SKILL_N22 },
{ 26, "Lower Resist",     IDS_SKILL_N26, IDB_SKILL_N26 },

// 3 = Paladin
{ 4, "Prayer",            IDS_SKILL_P04, IDB_SKILL_P04 },
{ 5, "Resist Fire",        IDS_SKILL_P05, IDB_SKILL_P05 },
{ 9, "Defiance",          IDS_SKILL_P09, IDB_SKILL_P09 },
{ 10, "Resist Cold",       IDS_SKILL_P10, IDB_SKILL_P10 },
{ 14, "Cleansing",         IDS_SKILL_P14, IDB_SKILL_P14 },
{ 15, "Resist Lightning",  IDS_SKILL_P15, IDB_SKILL_P15 },
{ 20, "Vigor",             IDS_SKILL_P20, IDB_SKILL_P20 },
{ 25, "Meditation",        IDS_SKILL_P25, IDB_SKILL_P25 },
{ 29, "Redemption",        IDS_SKILL_P29, IDB_SKILL_P29 },
{ 30, "Salvation",         IDS_SKILL_P30, IDB_SKILL_P30 },

{ 3, "Might",             IDS_SKILL_P03, IDB_SKILL_P03 },
{ 7, "Holy Fire",          IDS_SKILL_P07, IDB_SKILL_P07 },
{ 8, "Thorns",            IDS_SKILL_P08, IDB_SKILL_P08 },
{ 13, "Blessed Armor",     IDS_SKILL_P13, IDB_SKILL_P13 },
{ 18, "Concentration",     IDS_SKILL_P18, IDB_SKILL_P18 },
{ 19, "Holy Freeze",       IDS_SKILL_P19, IDB_SKILL_P19 },
{ 23, "Holy Shock",        IDS_SKILL_P23, IDB_SKILL_P23 },
{ 24, "Sanctuary",         IDS_SKILL_P24, IDB_SKILL_P24 },
{ 27, "Fanaticism",        IDS_SKILL_P27, IDB_SKILL_P27 },
{ 28, "Conviction",        IDS_SKILL_P28, IDB_SKILL_P28 },

{ 1, "Sacrifice",          IDS_SKILL_P01, IDB_SKILL_P01 },
{ 2, "Smite",              IDS_SKILL_P02, IDB_SKILL_P02 },
{ 6, "Holy Bolt",          IDS_SKILL_P06, IDB_SKILL_P06 },
{ 11, "Zeal",              IDS_SKILL_P11, IDB_SKILL_P11 },
{ 12, "Charge",            IDS_SKILL_P12, IDB_SKILL_P12 },
{ 16, "Vengeance",        IDS_SKILL_P16, IDB_SKILL_P16 },
{ 17, "Blessed Hammer",   IDS_SKILL_P17, IDB_SKILL_P17 },
{ 21, "Conversion",        IDS_SKILL_P21, IDB_SKILL_P21 },
{ 22, "Holy Shield",       IDS_SKILL_P22, IDB_SKILL_P22 },
{ 26, "Fist of Heavens",   IDS_SKILL_P26, IDB_SKILL_P26 },

// 4 = Barbarian
{ 5, "Howl",               IDS_SKILL_B05, IDB_SKILL_B05 },
{ 6, "Find Potion",        IDS_SKILL_B06, IDB_SKILL_B06 },
{ 12, "Taunt",             IDS_SKILL_B12, IDB_SKILL_B12 },
{ 13, "Shout",             IDS_SKILL_B13, IDB_SKILL_B13 },
{ 17, "Find Item",         IDS_SKILL_B17, IDB_SKILL_B17 },
{ 21, "Battle Cry",        IDS_SKILL_B21, IDB_SKILL_B21 },
{ 24, "Battle Orders",     IDS_SKILL_B24, IDB_SKILL_B24 },

```

```

{ 25,"Grim Wand",          IDS_SKILL_B25, IDB_SKILL_B25 },
{ 29,"War Cry",           IDS_SKILL_B29, IDB_SKILL_B29 },
{ 30,"Battle Command",    IDS_SKILL_B30, IDB_SKILL_B30 },

{ 2,"Sword Mastery",      IDS_SKILL_B02, IDB_SKILL_B02 },
{ 3,"Axe Mastery",        IDS_SKILL_B03, IDB_SKILL_B03 },
{ 4,"Mace Mastery",        IDS_SKILL_B04, IDB_SKILL_B04 },
{ 9,"Pole Mastery",       IDS_SKILL_B09, IDB_SKILL_B09 },
{ 10,"Throwing Mastery",  IDS_SKILL_B10, IDB_SKILL_B10 },
{ 11,"Speare Mastery",    IDS_SKILL_B11, IDB_SKILL_B11 },
{ 16,"Increase Stamina",  IDS_SKILL_B16, IDB_SKILL_B16 },
{ 20,"Iron Skin",         IDS_SKILL_B20, IDB_SKILL_B20 },
{ 23,"Increase Speed",    IDS_SKILL_B23, IDB_SKILL_B23 },
{ 28,"Natural Resistances", IDS_SKILL_P28, IDB_SKILL_B28 },

{ 1,"Bash",               IDS_SKILL_B01, IDB_SKILL_B01 },
{ 7,"Leap",               IDS_SKILL_B07, IDB_SKILL_B07 },
{ 8,"Double Swing",       IDS_SKILL_B08, IDB_SKILL_B08 },
{ 14,"Stun",              IDS_SKILL_B14, IDB_SKILL_B14 },
{ 15,"Double Throw",      IDS_SKILL_B15, IDB_SKILL_B15 },
{ 18,"Leap Attack",       IDS_SKILL_B18, IDB_SKILL_B18 },
{ 19,"Concentrate",       IDS_SKILL_B19, IDB_SKILL_B19 },
{ 22,"Frenzy",            IDS_SKILL_B22, IDB_SKILL_B22 },
{ 26,"Whirlwind",         IDS_SKILL_B26, IDB_SKILL_B26 },
{ 27,"Berserk",           IDS_SKILL_B27, IDB_SKILL_B27 }
};

struct skillprops
{
    int    idbitmap;
    int    idedit;
};

struct skillprops props[30] =
{
    { IDC_TAB3_Bitmap_A0, IDC_TAB3_Edit_A0 },
    { IDC_TAB3_Bitmap_A1, IDC_TAB3_Edit_A1 },
    { IDC_TAB3_Bitmap_A2, IDC_TAB3_Edit_A2 },
    { IDC_TAB3_Bitmap_A3, IDC_TAB3_Edit_A3 },
    { IDC_TAB3_Bitmap_A4, IDC_TAB3_Edit_A4 },
    { IDC_TAB3_Bitmap_A5, IDC_TAB3_Edit_A5 },
    { IDC_TAB3_Bitmap_A6, IDC_TAB3_Edit_A6 },
    { IDC_TAB3_Bitmap_A7, IDC_TAB3_Edit_A7 },
    { IDC_TAB3_Bitmap_A8, IDC_TAB3_Edit_A8 },
    { IDC_TAB3_Bitmap_A9, IDC_TAB3_Edit_A9 },
    { IDC_TAB3_Bitmap_B0, IDC_TAB3_Edit_B0 },
    { IDC_TAB3_Bitmap_B1, IDC_TAB3_Edit_B1 },
    { IDC_TAB3_Bitmap_B2, IDC_TAB3_Edit_B2 },
    { IDC_TAB3_Bitmap_B3, IDC_TAB3_Edit_B3 },
    { IDC_TAB3_Bitmap_B4, IDC_TAB3_Edit_B4 },
    { IDC_TAB3_Bitmap_B5, IDC_TAB3_Edit_B5 },
    { IDC_TAB3_Bitmap_B6, IDC_TAB3_Edit_B6 },
    { IDC_TAB3_Bitmap_B7, IDC_TAB3_Edit_B7 },
    { IDC_TAB3_Bitmap_B8, IDC_TAB3_Edit_B8 },
    { IDC_TAB3_Bitmap_B9, IDC_TAB3_Edit_B9 },
    { IDC_TAB3_Bitmap_C0, IDC_TAB3_Edit_C0 },
    { IDC_TAB3_Bitmap_C1, IDC_TAB3_Edit_C1 },
    { IDC_TAB3_Bitmap_C2, IDC_TAB3_Edit_C2 },
    { IDC_TAB3_Bitmap_C3, IDC_TAB3_Edit_C3 },
    { IDC_TAB3_Bitmap_C4, IDC_TAB3_Edit_C4 },
    { IDC_TAB3_Bitmap_C5, IDC_TAB3_Edit_C5 },
    { IDC_TAB3_Bitmap_C6, IDC_TAB3_Edit_C6 },
    { IDC_TAB3_Bitmap_C7, IDC_TAB3_Edit_C7 },
    { IDC_TAB3_Bitmap_C8, IDC_TAB3_Edit_C8 },
    { IDC_TAB3_Bitmap_C9, IDC_TAB3_Edit_C9 }
};

int    selection;
skill* classskills;
HWND   hTrack;
char   skilleffect[256];

LRESULT CALLBACK Tab3DialogProc(HWND hWnd,UINT uMsg,WPARAM wParam,LPARAM lParam)
{
    switch(uMsg)
    {
        case WM_INITDIALOG:
            {
                SendDlgItemMessage(hWnd, IDC_TAB3_BonusPlus, STM_SETIMAGE, IMAGE_BITMAP, (LPARAM) hBmpPlus);

                // Setup Track Bar
            }
    }
}

```



```

hTrack = GetDlgItem(hWnd, IDC_TAB3_Track);
SendMessage(hTrack, TBM_SETRANGE,
    FALSE, (LPARAM) MAKELONG(0, 20));
SendMessage(hTrack, TBM_SETTICFREQ, (LPARAM) 1, 0);
SendMessage(hTrack, TBM_SETPAGESIZE, FALSE, (LPARAM) 1);
SendMessage(hTrack, TBM_SETPOS, TRUE, (LPARAM) 0);

// Insert right bitmaps and show skill levels
for(int i=0;i<3;i++)
{
    SetDlgItemText(hWnd, IDC_TAB3_Frame_A+i, groups[fc.Header.playerclass][i]);
}
classskills = &skills[fc.Header.playerclass * 30];
for(i=0;i<30;i++)
{
    SendDlgItemMessage(hWnd, props[i].idbitmap, STM_SETIMAGE, IMAGE_BITMAP, (LPARAM) classskills[i].hbitmap);
    SetDlgItemInt(hWnd, props[i].idedit, fc.IF.skills[classskills[i].ifoffset-1], FALSE);
}

selection = -1;

// Setup user variables
SetDlgItemInt(hWnd, IDC_TAB3_Bonus, fc.gf.skillbonus, FALSE);

hToolTip = CreateToolTipCtrl(hWnd, IDD_TAB3, true);
}
return true;
case WM_COMMAND:
{
    switch(LOWORD(wParam))
    {
        case IDC_TAB3_Bitmap_A0:
        case IDC_TAB3_Bitmap_A2:
        case IDC_TAB3_Bitmap_A4:
        case IDC_TAB3_Bitmap_A6:
        case IDC_TAB3_Bitmap_A8:
        case IDC_TAB3_Bitmap_B0:
        case IDC_TAB3_Bitmap_B2:
        case IDC_TAB3_Bitmap_B4:
        case IDC_TAB3_Bitmap_B6:
        case IDC_TAB3_Bitmap_B8:
        case IDC_TAB3_Bitmap_C0:
        case IDC_TAB3_Bitmap_C2:
        case IDC_TAB3_Bitmap_C4:
        case IDC_TAB3_Bitmap_C6:
        case IDC_TAB3_Bitmap_C8:
        case IDC_TAB3_Bitmap_A1:
        case IDC_TAB3_Bitmap_A3:
        case IDC_TAB3_Bitmap_A5:
        case IDC_TAB3_Bitmap_A7:
        case IDC_TAB3_Bitmap_A9:
        case IDC_TAB3_Bitmap_B1:
        case IDC_TAB3_Bitmap_B3:
        case IDC_TAB3_Bitmap_B5:
        case IDC_TAB3_Bitmap_B7:
        case IDC_TAB3_Bitmap_B9:
        case IDC_TAB3_Bitmap_C1:
        case IDC_TAB3_Bitmap_C3:
        case IDC_TAB3_Bitmap_C5:
        case IDC_TAB3_Bitmap_C7:
        case IDC_TAB3_Bitmap_C9:
        {
            HWND hBmp = GetDlgItem(hWnd, IDC_TAB3_Prop_Bitmap);
            HWND hEdit = GetDlgItem(hWnd, IDC_TAB3_Prop_Edit);
            HWND hEffect = GetDlgItem(hWnd, IDC_TAB3_Prop_Effect);

            if (selection < 0)
            {
                ShowWindow(hBmp, SW_SHOW);
                ShowWindow(hEdit, SW_SHOW);
                ShowWindow(hEffect, SW_SHOW);
                ShowWindow(hTrack, SW_SHOW);
            }

            if (LOWORD(wParam) - IDC_TAB3_Bitmap_A0 == selection)
            {
                fc.IF.skills[classskills[selection].ifoffset-1]++;

                if (fc.IF.skills[classskills[selection].ifoffset-1] > 20)
                    fc.IF.skills[classskills[selection].ifoffset-1] = 20;

                SetDlgItemInt(hWnd, props[selection].idedit, fc.IF.skills[classskills[selection].ifoffset-1], FALSE);

                SendMessage(hTrack, TBM_SETPOS, TRUE, (LPARAM) fc.IF.skills[classskills[selection].ifoffset-1]);
            }
            else
            {
                selection = LOWORD(wParam) - IDC_TAB3_Bitmap_A0;

                SendMessage(hBmp, STM_SETIMAGE, IMAGE_BITMAP, (LPARAM) classskills[selection].hbitmap);
                SendMessage(hEdit, WM_SETTEXT, 0, (LPARAM) classskills[selection].name);
                SendMessage(hTrack, TBM_SETPOS, TRUE, (LPARAM) fc.IF.skills[classskills[selection].ifoffset-1]);
                LoadString(hInstance, classskills[selection].idstring, skilleffect, 256);
                SendMessage(hEffect, WM_SETTEXT, 0, (LPARAM) skilleffect);
            }
        }
    }
};

```

```

    }
    break;
case IDC_TAB3_BonusPlus:
    {
        DWORD x = GetDlgItemInt(hWnd, IDC_TAB3_Bonus, NULL, FALSE);
        SetDlgItemInt(hWnd, IDC_TAB3_Bonus, x+1, FALSE);
    }
    break;
case IDR_TAB3_MaximizeAll:
    {
        for(int i=0;i<30;i++)
        {
            fc.IF.skills[i] = 20;
            SetDlgItemInt(hWnd, props[i].idedit, 20, FALSE);
            if (selection > 0)
            {
                SendMessage(hTrack, TBM_SETPOS, TRUE, (LPARAM) fc.IF.skills[classskills[selection].ifoffset-1])
            }
        }
    }
    break;
case IDR_TAB3_SetAll0:
case IDR_TAB3_SetAll4:
case IDR_TAB3_SetAll8:
case IDR_TAB3_SetAll12:
case IDR_TAB3_SetAll16:
case IDR_TAB3_SetAll20:
    {
        for(int i=0;i<30;i++)
        {
            fc.IF.skills[i] =
                (LOWORD(wParam) == IDR_TAB3_SetAll0) ? 0 :
                (LOWORD(wParam) == IDR_TAB3_SetAll4) ? 4 :
                (LOWORD(wParam) == IDR_TAB3_SetAll8) ? 8 :
                (LOWORD(wParam) == IDR_TAB3_SetAll12) ? 12 :
                (LOWORD(wParam) == IDR_TAB3_SetAll16) ? 16 :
                (LOWORD(wParam) == IDR_TAB3_SetAll20) ? 20 : 0;

            SetDlgItemInt(hWnd, props[i].idedit, fc.IF.skills[i], FALSE);
            if (selection > 0) {
                SendMessage(hTrack, TBM_SETPOS, TRUE, (LPARAM) fc.IF.skills[classskills[selection].ifoffset-1])
            }
        }
    }
    break;
case IDC_TAB3_Batch:
    switch(HIWORD(wParam))
    {
    case BN_CLICKED:
        {
            HMENU hMenu = GetSubMenu(hBatchMenu, 2);

            POINT Pos;
            GetCursorPos(&Pos);

            TrackPopupMenu(hMenu, TPM_LEFTALIGN | TPM_LEFTBUTTON,
                Pos.x, Pos.y, 0, hWnd, NULL);
        }
        break;
    }
    break;
}
break;
case WM_HSCROLL:
    if ((HWND)lParam == hTrack)
    {
        fc.IF.skills[classskills[selection].ifoffset-1] = (BYTE)SendMessage(hTrack, TBM_GETPOS, 0, 0);
        SetDlgItemInt(hWnd, props[selection].idedit, fc.IF.skills[classskills[selection].ifoffset-1], FALSE);
        break;
    }
    break;
case WM_DESTROY:
    {
        // Retrieve user variables

```

```
        fc.gf.skillbonus = GetDlgItemInt(hWnd, IDC_TAB3_Bonus, NULL, FALSE);  
        DestroyWindow(hToolTip);  
    }  
    return false;  
}  
return false;  
}
```

```

// Tab4.cpp from D2E

#include "JamellaD2E.h"

struct queststatus actA1[] =
{
    { "Not started", 0x0000 },
    { "Look for the Den", 0x0004 },
    { "Get reward from Akara", 0x0004 },
    { "Quest just completed", 0x901D },
    { "Quest completed", 0x001D },
    { 0,0 }
};

struct queststatus actA2[] =
{
    { "Not started", 0x0000 },
    { "Look for Blood Raven", 0x0004 },
    { "Kill Blood Raven", 0x001C },
    { "Get reward from Akara", 0x001E },
    { "Quest just completed", 0x901D },
    { "Quest completed", 0x001D },
    { 0,0 }
};

struct queststatus actA3[] =
{
    { "Not started", 0x0000 },
    { "Look for the Scroll", 0x0004 },
    { "Get reward from Akara", 0x000E },
    { "Quest just completed", 0x900D },
    { "Killed Cow King!", 0x0114 },
    { "Quest completed", 0x001D },
    { 0,0 }
};

struct queststatus actA4[] =
{
    { "Not started", 0x0000 },
    { "Look for Forgotten Tower", 0x0004 },
    { "Explore the cellar dungeons", 0x0044 },
    { "Dispose of evil Countess", 0x0054 },
    { "Quest just completed", 0x9055 },
    { "Quest completed", 0x001D },
    { 0,0 }
};

struct queststatus actA5[] =
{
    { "Not started", 0x0000 },
    { "Look for ...", 0x0004 },
    { "Charsi will Imbue Item", 0x004E },
    { "Just finished", 0x001D },
    { "Long finished", 0x0001 },
    { 0,0 }
};

struct queststatus simple[] =
{
    { "Not started", 0x0000 },
    { "Look for ...", 0x0004 },
    { "Just finished", 0x001D },
    { "Long finished", 0x0001 },
    { 0,0 }
};

struct queststatus allcombo[] =
{
    { "to not started", 0x0000 },
    { "to look for ...", 0x0004 },
    { "to just finished", 0x001D },
    { "to long finished", 0x0001 },
    { 0,0 }
};

struct quest quests[21] =
{
    { IDS_QUESTION11, IDB_QUESTION11, actA1, 1 },
    { IDS_QUESTION12, IDB_QUESTION12, actA2, 2 },
    { IDS_QUESTION13, IDB_QUESTION13, actA3, 4 },
    { IDS_QUESTION14, IDB_QUESTION14, actA4, 5 },
    { IDS_QUESTION15, IDB_QUESTION15, actA5, 3 },
    { IDS_QUESTION16, IDB_QUESTION16, simple, 6 },
};

```

```

{ IDS_QUEST21, IDB_QUEST21, simple, 9 },
{ IDS_QUEST22, IDB_QUEST22, simple, 10 },
{ IDS_QUEST23, IDB_QUEST23, simple, 11 },
{ IDS_QUEST24, IDB_QUEST24, simple, 12 },
{ IDS_QUEST25, IDB_QUEST25, simple, 13 },
{ IDS_QUEST26, IDB_QUEST26, simple, 14 },

{ IDS_QUEST31, IDB_QUEST31, simple, 20 },
{ IDS_QUEST32, IDB_QUEST32, simple, 19 },
{ IDS_QUEST33, IDB_QUEST33, simple, 18 },
{ IDS_QUEST34, IDB_QUEST34, simple, 17 },
{ IDS_QUEST35, IDB_QUEST35, simple, 21 },
{ IDS_QUEST36, IDB_QUEST36, simple, 22 },

{ IDS_QUEST41, IDB_QUEST41, simple, 25 },
{ IDS_QUEST42, IDB_QUEST42, simple, 27 },
{ IDS_QUEST43, IDB_QUEST43, simple, 26 }
};

const int questsn = sizeof quests / sizeof quests[0];

int actsoffsets[4] =
{ 0, 7, 15, 23 };

struct
{
    int      text;
    int      bitmap;
    int      combo;
    HWND     hcombo;
}
interfaces[6] =
{
    { IDC_TAB4_Text1, IDC_TAB4_Bmp1, IDC_TAB4_Sel1 },
    { IDC_TAB4_Text2, IDC_TAB4_Bmp2, IDC_TAB4_Sel2 },
    { IDC_TAB4_Text3, IDC_TAB4_Bmp3, IDC_TAB4_Sel3 },
    { IDC_TAB4_Text4, IDC_TAB4_Bmp4, IDC_TAB4_Sel4 },
    { IDC_TAB4_Text5, IDC_TAB4_Bmp5, IDC_TAB4_Sel5 },
    { IDC_TAB4_Text6, IDC_TAB4_Bmp6, IDC_TAB4_Sel6 }
};

int      act;
WORD*   ptr;

void updatequests(HWND hWnd)
{
    int x = act * 6;
    for(int id=0; id < 6; id++)
    {
        if (x+id < questsn)
        {
            struct quest *quest = &quests[x+id];
            WORD qstat = ptr[quest->offset];

            SetDlgItemText(hWnd, interfaces[id].text, quest->string);
            SendDlgItemMessage(hWnd, interfaces[id].bitmap,
                SIM_SETIMAGE, IMAGE_BITMAP, (LPARAM) quest->hbitmap);

            EnableWindow(interfaces[id].hcombo, TRUE);
            SendMessage(interfaces[id].hcombo, CB_RESETCONTENT, 0, 0);
            bool addstatus = true;
            for (int i=0; quest->stati[i].text; i++)
            {
                SendMessage(interfaces[id].hcombo,
                    CB_ADDSTRING, 0, (LPARAM) quest->stati[i].text);

                if ((qstat & 0xFF) != (quest->stati[i].value & 0xFF)) continue;

                if (quest->stati[i].value & 0xFF00)
                {
                    if (qstat != quest->stati[i].value) continue;
                }
                SendMessage(interfaces[id].hcombo, CB_SETCURSEL, i, 0);
                addstatus = false;
            }
            if (addstatus)
            {
                sprintf(buffer, "Status %4X", qstat);
            }
        }
    }
}

```

```

        SendMessage(interfaces[id].hcombo,
                    CB_ADDSTRING,0,(LPARAM) buffer);
        SendMessage(interfaces[id].hcombo,CB_SETCURSEL,i,0);
    }
}
else
{
    SetDlgItemText(hWnd,interfaces[id].text,"");
    SendDlgItemMessage(hWnd,interfaces[id].bitmap,
        STM_SETIMAGE,IMAGE_BITMAP,(LPARAM) 0);

    EnableWindow(interfaces[id].hcombo,FALSE);
    SendMessage(interfaces[id].hcombo,CB_RESETCONTENT,0,0);
}
}
}
}
void updateacts(HWND hWnd)
{
    // Set Check Buttons
    for(int z=0;z<3;z++)
    {
        CheckDlgButton(hWnd,IDC_TAB4_Act2_On+z,
            ptr[actsoffsets[z+1]] == 0x0000 ? BST_UNCHECKED : BST_CHECKED);
        EnableWindow(GetDlgItem(hWnd,IDC_TAB4_Act2+z),!(ptr[actsoffsets[z+1]] == 0x0000));
    }
    updatequests(hWnd);
}

LRESULT CALLBACK Tab4DialogProc(HWND hWnd,UINT uMsg,WPARAM wParam,LPARAM lParam)
{
    switch(uMsg)
    {
    case WM_INITDIALOG:
        {
            for(int x = 0;x < 6;x++)
            {
                interfaces[x].hcombo = GetDlgItem(hWnd,interfaces[x].combo);
            }

            // Select default levels
            CheckRadioButton(hWnd,IDC_TAB4_Diff1,IDC_TAB4_Diff3,
                IDC_TAB4_Diff1);
            CheckRadioButton(hWnd,IDC_TAB4_Act1,IDC_TAB4_Act4,
                IDC_TAB4_Act1);

            act = 0;
            ptr = fc.Woo.quests1;
            updateacts(hWnd);

            // Fill all combo
            SendDlgItemMessage(hWnd,IDC_TAB4_SelAll,CB_RESETCONTENT,0,0);
            for (int i=0;allcombo[i].text;i++)
            {
                SendDlgItemMessage(hWnd,IDC_TAB4_SelAll,
                    CB_ADDSTRING,0,(LPARAM) allcombo[i].text);
            }
            SendDlgItemMessage(hWnd,IDC_TAB4_SelAll,CB_SETCURSEL,0,0);

            hToolTip = CreateToolTipCtrl(hWnd,IDD_TAB4,true);
        }
        return true;
    case WM_COMMAND:
        {
            if (LOWORD(wParam) == IDC_TAB4_Diff1 && HIWORD(wParam) == BN_CLICKED)
            {
                if (IsDlgButtonChecked(hWnd,IDC_TAB4_Diff1))
                {
                    ptr = fc.Woo.quests1;
                    updateacts(hWnd);
                }
            }
            else if (LOWORD(wParam) == IDC_TAB4_Diff2 && HIWORD(wParam) == BN_CLICKED)
            {
                if (IsDlgButtonChecked(hWnd,IDC_TAB4_Diff2))
                {
                    ptr = fc.Woo.quests2;
                    updateacts(hWnd);
                }
            }
        }
    }
}

```

```

else if (LOWORD(wParam) == IDC_TAB4_Diff3 && HIWORD(wParam) == BN_CLICKED)
{
    if (IsDlgButtonChecked(hWnd, IDC_TAB4_Diff3))
    {
        ptr = fc.Woo.quests3;
        updateacts(hWnd);
    }
}
if (LOWORD(wParam) == IDC_TAB4_Act1 && HIWORD(wParam) == BN_CLICKED)
{
    if (IsDlgButtonChecked(hWnd, IDC_TAB4_Act1))
    {
        act = 0;
        updatequests(hWnd);
    }
}
else if (LOWORD(wParam) == IDC_TAB4_Act2 && HIWORD(wParam) == BN_CLICKED)
{
    if (IsDlgButtonChecked(hWnd, IDC_TAB4_Act2))
    {
        act = 1;
        updatequests(hWnd);
    }
}
else if (LOWORD(wParam) == IDC_TAB4_Act3 && HIWORD(wParam) == BN_CLICKED)
{
    if (IsDlgButtonChecked(hWnd, IDC_TAB4_Act3))
    {
        act = 2;
        updatequests(hWnd);
    }
}
else if (LOWORD(wParam) == IDC_TAB4_Act4 && HIWORD(wParam) == BN_CLICKED)
{
    if (IsDlgButtonChecked(hWnd, IDC_TAB4_Act4))
    {
        act = 3;
        updatequests(hWnd);
    }
}
else if (LOWORD(wParam) == IDC_TAB4_Act2_On && HIWORD(wParam) == BN_CLICKED)
{
    if (IsDlgButtonChecked(hWnd, IDC_TAB4_Act2_On))
    {
        ptr[actsoffsets[1]] = 0x0001;
        updateacts(hWnd);
    }
    else
    {
        ptr[actsoffsets[1]] = 0x0000;
        updateacts(hWnd);
    }
}
else if (LOWORD(wParam) == IDC_TAB4_Act3_On && HIWORD(wParam) == BN_CLICKED)
{
    if (IsDlgButtonChecked(hWnd, IDC_TAB4_Act3_On))
    {
        ptr[actsoffsets[2]] = 0x0001;
        updateacts(hWnd);
    }
    else
    {
        ptr[actsoffsets[2]] = 0x0000;
        updateacts(hWnd);
    }
}
else if (LOWORD(wParam) == IDC_TAB4_Act4_On && HIWORD(wParam) == BN_CLICKED)
{
    if (IsDlgButtonChecked(hWnd, IDC_TAB4_Act4_On))
    {
        ptr[actsoffsets[3]] = 0x0001;
        updateacts(hWnd);
    }
    else
    {
        ptr[actsoffsets[3]] = 0x0000;
        updateacts(hWnd);
    }
}
}

```

```

else if (HIWORD(wParam) == CBN_SELCHANGE)
{
    for (int i=0;i<6;i++)
    {
        if (LOWORD(wParam) == interfaces[i].combo)
        {
            int sel = SendMessage(interfaces[i].hcombo,CB_GETCURSEL,0,0);

            struct quest *quest = &quests[act*6 + i];

            if (quest->stati[sel].text)
            {
                ptr[quest->offset] = quest->stati[sel].value;
            }
            updatequests(hWndd);
        }
    }
}
else if (LOWORD(wParam) == IDC_TAB4_SetAll1 && HIWORD(wParam) == BN_CLICKED)
{
    int sel = SendDlgItemMessage(hWndd,IDC_TAB4_SelAll,CB_GETCURSEL,0,0);
    for (int i=0;i<6;i++)
    {
        if (act*6 + i < questsn)
        {
            struct quest *quest = &quests[act*6 + i];
            ptr[quest->offset] = allcombo[sel].value;
        }
    }
    updatequests(hWndd);
}
else if (LOWORD(wParam) == IDC_TAB4_SetAll2 && HIWORD(wParam) == BN_CLICKED)
{
    int sel = SendDlgItemMessage(hWndd,IDC_TAB4_SelAll,CB_GETCURSEL,0,0);
    for (int i=0;i<questsn;i++)
    {
        struct quest *quest = &quests[i];
        ptr[quest->offset] = allcombo[sel].value;
    }
    for(i=0;i<3;i++)
    {
        ptr[actsoffsets[i+1]] = 0x0001;
    }
    updateacts(hWndd);
}
else if (LOWORD(wParam) == IDC_TAB4_CowLevel && HIWORD(wParam) == BN_CLICKED)
{
    DialogBox(hInstance,MAKEINTRESOURCE(IDD_COWLEVEL),hWnd,(DLGPROC) CowLevelDialogProc);
}
}
break;
case WM_DESTROY:
{
    DestroyWindow(hToolTip);
}
return false;
}
return false;
}
}

```



```

// Tab5.cpp from D2E

#include "JamellaD2E.h"

DWORD *waypoints;
HBITMAP hBmpWaypointOn;
HBITMAP hBmpWaypointOff;

void inline updatewaypoints(HWND hWnd)
{
    for(int id=0;id <= IDC_TAB5_Way33-IDC_TAB5_Way01;id++)
    {
        SendDlgItemMessage(hWnd,IDC_TAB5_Way01+id,STM_SETIMAGE,IMAGE_BITMAP,
            (*waypoints & (1 << id)) ? (LPARAM)hBmpWaypointOn : (LPARAM)hBmpWaypointOff);
    }
}

LRESULT CALLBACK Tab5DialogProc(HWND hWnd,UINT uMsg,WPARAM wParam,LPARAM lParam)
{
    switch(uMsg)
    {
        case WM_INITDIALOG:
        {
            // Select default difficulty level
            CheckRadioButton(hWnd,IDC_TAB5_Diff1,IDC_TAB5_Diff3,IDC_TAB5_Diff1);

            waypoints = &fc.WS.waypoints1;
            updatewaypoints(hWnd);

            hToolTip = CreateToolTipCtrl(hWnd,IDD_TAB5,true);
        }
        return true;
        case WM_COMMAND:
        {
            if (LOWORD(wParam) == IDC_TAB5_Diff1 && HIWORD(wParam) == BN_CLICKED)
            {
                if (IsDlgButtonChecked(hWnd,IDC_TAB5_Diff1))
                {
                    waypoints = &fc.WS.waypoints1;
                    updatewaypoints(hWnd);
                }
            }
            else if (LOWORD(wParam) == IDC_TAB5_Diff2 && HIWORD(wParam) == BN_CLICKED)
            {
                if (IsDlgButtonChecked(hWnd,IDC_TAB5_Diff2))
                {
                    waypoints = &fc.WS.waypoints2;
                    updatewaypoints(hWnd);
                }
            }
            else if (LOWORD(wParam) == IDC_TAB5_Diff3 && HIWORD(wParam) == BN_CLICKED)
            {
                if (IsDlgButtonChecked(hWnd,IDC_TAB5_Diff3))
                {
                    waypoints = &fc.WS.waypoints3;
                    updatewaypoints(hWnd);
                }
            }
            else if (LOWORD(wParam) >= IDC_TAB5_Way01 && LOWORD(wParam) <= IDC_TAB5_Way33 &&
                (HIWORD(wParam) == BN_CLICKED || HIWORD(wParam) == BN_DBLCLK))
            {
                DWORD o = 1 << (LOWORD(wParam) - IDC_TAB5_Way01) ;

                if (*waypoints & o)
                    *waypoints &= o ^ 0xFFFFFFFF;
                else
                    *waypoints |= o;
                updatewaypoints(hWnd);
            }
            else if (LOWORD(wParam) == IDC_TAB5_Batch && HIWORD(wParam) == BN_CLICKED)
            {
                HMENU hMenu = GetSubMenu(hBatchMenu,4);

                POINT Pos;
                GetCursorPos(&Pos);

                TrackPopupMenu(hMenu, TPM_LEFTALIGN | TPM_LEFTBUTTON,
                    Pos.x, Pos.y, 0, hWnd, NULL);
            }
        }
    }
}

```

```
else if (LOWORD(wParam) == IDR_TAB5_ActivateHereAll)
{
    *waypoints = 0x3FFFFFFF;
    updatewaypoints(hWnd);
}
else if (LOWORD(wParam) == IDR_TAB5_ActivateAllAll)
{
    fc.WS.waypoints1 = 0x3FFFFFFF;
    fc.WS.waypoints2 = 0x3FFFFFFF;
    fc.WS.waypoints3 = 0x3FFFFFFF;
    updatewaypoints(hWnd);
}
else if (LOWORD(wParam) == IDR_TAB5_DeactivateHereAll)
{
    *waypoints = 0x0;
    updatewaypoints(hWnd);
}
else if (LOWORD(wParam) == IDR_TAB5_DeactivateAllAll)
{
    fc.WS.waypoints1 = 0x0;
    fc.WS.waypoints2 = 0x0;
    fc.WS.waypoints3 = 0x0;
    updatewaypoints(hWnd);
}
}
break;
case WM_DESTROY:
{
    DestroyWindow(hToolTip);
}
return false;
}
return false;
}
```

```

#include "JamellaD2E.h"

void StripRTF(char *d, const char *s)
{
    while(*s)
    {
        if (*s == '{')
        {
            int dp = 0;
            while(*s)
            {
                if (*s == '}' && dp == 0)
                    break;
                else if (*s == '}' && dp > 0) {
                    dp--;
                    s++;
                    continue;
                }
                else if (*s == '{') {
                    dp++;
                    s++;
                    continue;
                }
                else if (*s == '\\') && dp == 1)
                {
                    if (*(s+1) == 'p' && *(s+2) == 'a' && *(s+3) == 'r')
                        *d++ = '\\n';

                    while(*s && *s != ' ' && *s != '{')
                        s++;

                    if (*s == ' ') s++;
                }
                else if (dp == 1)
                    *d++ = *s++;
                else
                    s++;
            }
        }
        *d = 0;
    }
}

void WriteTextSummary(HWND hWnd)
{
    if (!fc.isloaded())
    {
        MessageBox("You must load a character!",hWnd);
        return;
    }

    // common dialog box structure
    char QueryFilename[260];
    OPENFILENAME ofn;

    {
        // Initialize OPENFILENAME
        ZeroMemory(&ofn,sizeof(OPENFILENAME));
        ofn.lStructSize = sizeof(OPENFILENAME);

        ofn.hwndOwner = hWnd;
        ofn.lpstrFilter = "Text File (*.txt)\\0*.txt\\0";
        ofn.nFilterIndex = 0;
        ofn.lpstrFile = QueryFilename;
        ofn.nMaxFile = sizeof(QueryFilename);
        ofn.lpstrFileTitle = NULL;
        ofn.lpstrDefExt = "txt";
        ofn.nMaxFileTitle = 0;

        ofn.Flags = OFN_PATHMUSTEXIST | OFN_OVERWRITEPROMPT | OFN_NOREADONLYRETURN | OFN_HIDEREADONLY;

        ZeroMemory(&QueryFilename,sizeof(QueryFilename));
        strcpy(QueryFilename,fc.Header.playername);
    }

    // Display the Open Dialog Box
    if (GetSaveFileName(&ofn))

```

```

{
    // Open File
    FILE *f = fopen(QueryFilename,"wt");

    if (f == 0)
    {
        MessageBox(hWnd,"Could not open file!",PROGRAMNAME,
            MB_OK | MB_ICONSTOP | MB_APPLMODAL);
        return;
    }

    fprintf(f,"Diablo 2 Character Summary\nwritten by %s\n\n",PROGRAMNAME);

    fprintf(f,"Character Properties:\n");
    fprintf(f,"Name: %s\n",fc.Header.playername);
    fprintf(f,"Class: %s\n",CharClasses[fc.Header.playerclass]);
    fprintf(f,"Level: %u\n",fc.gf.level);
    fprintf(f,"Experience: %u\n",fc.gf.experience);

    int diff = 0;
    if ((fc.Header.diff & 0x0C) == 0x04) diff = 1;
    if ((fc.Header.diff & 0x0C) == 0x08) diff = 2;
    if ((fc.Header.diff & 0x0C) == 0x0C) diff = 3;

    fprintf(f,"Difficulty: %s\n",Difficulties[diff]);
    fprintf(f,"Hardcore: %s\n",fc.Header.hardcore & 0x04 ? "Yes" : "No");
    fprintf(f,"Dead: %s\n",fc.Header.hardcore & 0x08 ? "Yes" : "No");

    fprintf(f,"\nCharacter Stats:\n");
    fprintf(f,"Strength: %u\n",fc.gf.strength);
    fprintf(f,"Dexterity: %u\n",fc.gf.dexterity);
    fprintf(f,"Vitality: %u\n",fc.gf.vitality);
    fprintf(f,"Energy: %u\n",fc.gf.energy);
    fprintf(f,"Health: %u / %u\n",fc.gf.health,fc.gf.healthmax);
    fprintf(f,"Mana: %u / %u\n",fc.gf.mana,fc.gf.manamax);
    fprintf(f,"Stamina: %u / %u\n",fc.gf.stamina,fc.gf.staminamax);
    fprintf(f,"Gold on Body: %u\n",fc.gf.stamina,fc.gf.goldperson);
    fprintf(f,"Gold in Stash: %u\n",fc.gf.stamina,fc.gf.goldstash);

    fprintf(f,"\n%u Items:\n",Items->Count());

    for(Item *I = Items;I != 0;I = I->Next())
    {
        char description[2048];
        StripRTF(description,I->RichText());
        fprintf(f,"%s\n",description);
    }

    fclose(f);
}
return;
}

```

```
// ToolTips.cpp for Jamella's Diablo 2 Editor
```

```
#include "JamellaD2E.h"
```

```
struct
```

```
{
    int    ToolSet;
    int    CtrlID;
    char*  Text;
}
```

```
ToolTips[] =
```

```
{
    IDD_TAB1, IDC_TAB1_Name, "" },
    IDD_TAB1, IDC_TAB1_Rename, "" },
    { IDD_TAB1, IDC_TAB1_Class, "Changes your character's class.\n\rOptions: Amazon, Barbarian, Necromancer, Sorceress, Palad
in.\n\rNote that when changing your class, your character's skills are changed too. Please adapt these in the Skills Tab
" },
    IDD_TAB1, IDC_TAB1_Level, "" },
    IDD_TAB1, IDC_TAB1_Experience, "" },
    IDD_TAB1, IDC_TAB1_StartTown, "" },
    IDD_TAB1, IDC_TAB1_Char1, "" },
    IDD_TAB1, IDC_TAB1_Char2, "" },
    IDD_TAB1, IDC_TAB1_Char3, "" },
    IDD_TAB1, IDC_TAB1_Char4, "" },
    IDD_TAB1, IDC_TAB1_Char5, "" },
    IDD_TAB1, IDC_TAB1_Plus1, "" },
    IDD_TAB1, IDC_TAB1_Plus2, "" },
    IDD_TAB1, IDC_TAB1_Plus3, "" },
    IDD_TAB1, IDC_TAB1_Plus4, "" },
    IDD_TAB1, IDC_TAB1_Plus5, "" },
    IDD_TAB1, IDC_TAB1_StatsLink, "" },
    IDD_TAB1, IDC_TAB1_Batch, "" },
    IDD_TAB1, IDC_TAB1_Hardcore, "" },
    IDD_TAB1, IDC_TAB1_Dead, "" },
    IDD_TAB1, IDC_TAB1_Difficulty, "" },
    IDD_TAB1, IDC_TAB1_Health, "" },
    IDD_TAB1, IDC_TAB1_HealthMax, "" },
    IDD_TAB1, IDC_TAB1_Stamina, "" },
    IDD_TAB1, IDC_TAB1_StaminaMax, "" },
    IDD_TAB1, IDC_TAB1_Mana, "" },
    IDD_TAB1, IDC_TAB1_ManaMax, "" },
    IDD_TAB1, IDC_TAB1_GoldPerson, "" },
    IDD_TAB1, IDC_TAB1_SetMaxGoldPerson, "" },
    IDD_TAB1, IDC_TAB1_GoldStash, "" },
    IDD_TAB1, IDC_TAB1_SetMaxGoldStash, "" },
    IDD_TAB2, IDC_TAB2_Body, "" },
    IDD_TAB2, IDC_TAB2_Inv, "" },
    IDD_TAB2, IDC_TAB2_Cube, "" },
    IDD_TAB2, IDC_TAB2_Belt, "" },
    IDD_TAB2, IDC_TAB2_Stash, "" },
    { IDD_TAB2, IDC_TAB2_CopyBuffer, "This buffer field acts as an item duplicator.\n\r\nDrop an item into this buffer and you
can copy it multiple times from it. After finished with duplicating you can delete it.\n\r\nYou can also load and save the
contents of this buffer using the two buttons above." },
    { IDD_TAB2, IDC_TAB2_Save, "" },
    { IDD_TAB2, IDC_TAB2_Load, "" },
    { IDD_TAB2, IDC_TAB2_RichText, "" },
    { IDD_TAB2, IDC_TAB2_AttrRandom, "" },
    { IDD_TAB2, IDC_TAB2_Batch, "" },
    { IDD_TAB2, IDC_TAB2_ExpertMode, "" },
    { IDD_TAB2, IDC_TAB2_Save, "Clicking this button you can save the contents of the Copy Buffer into a file.\n\r\nThis file w
ill contain the 27 bytes of item data.\n\r\nNo inserted gems will be saved along!" },
    { IDD_TAB2, IDC_TAB2_Load, "With this button you can load a saved item into the Copy Buffer below." },
    { IDD_TAB2, IDC_TAB2_ItemTree, "This item tree contains all of the items in the game. You can drag-drop entries into your
inventory to create a new item." },
    { IDD_TAB3, IDC_TAB3_Track, "" },
    { IDD_TAB3, IDC_TAB3_Bonus, "" },
    { IDD_TAB3, IDC_TAB3_BonusPlus, "" },
    { IDD_TAB3, IDC_TAB3_Batch, "" },
    { IDD_TAB3, IDC_TAB3_Prop_Bitmap, "" },
    { IDD_TAB4, IDC_TAB4_Diff1, "" },
    { IDD_TAB4, IDC_TAB4_Diff2, "" },
    { IDD_TAB4, IDC_TAB4_Diff3, "" },
    { IDD_TAB4, IDC_TAB4_Act1, "" },
    { IDD_TAB4, IDC_TAB4_Act2, "" },
    { IDD_TAB4, IDC_TAB4_Act3, "" },
    { IDD_TAB4, IDC_TAB4_Act4, "" },
    { IDD_TAB4, IDC_TAB4_Act2_On, "" },
    { IDD_TAB4, IDC_TAB4_Act3_On, "" },
    { IDD_TAB4, IDC_TAB4_Act4_On, "" },
}
```

```

{
IDD_TAB4, IDC_TAB4_SelAll, "" },
IDD_TAB4, IDC_TAB4_SetAll1, "" },
IDD_TAB4, IDC_TAB4_SetAll2, "" },
IDD_TAB4, IDC_TAB4_CowLevel, "" },
IDD_TAB4, IDC_TAB4_Sel1, "" },
IDD_TAB4, IDC_TAB4_Sel2, "" },
IDD_TAB4, IDC_TAB4_Sel3, "" },
IDD_TAB4, IDC_TAB4_Sel4, "" },
IDD_TAB4, IDC_TAB4_Sel5, "" },
IDD_TAB4, IDC_TAB4_Sel6, "" },
IDD_TAB4, IDC_TAB4_Bmp1, "" },
IDD_TAB4, IDC_TAB4_Bmp2, "" },
IDD_TAB4, IDC_TAB4_Bmp3, "" },
IDD_TAB4, IDC_TAB4_Bmp4, "" },
IDD_TAB4, IDC_TAB4_Bmp5, "" },
IDD_TAB4, IDC_TAB4_Bmp6, "" },
IDD_TAB5, IDC_TAB5_Diff1, "" },
IDD_TAB5, IDC_TAB5_Diff2, "" },
IDD_TAB5, IDC_TAB5_Diff3, "" },
IDD_TAB5, IDC_TAB5_Batch, "" },
IDD_TAB5, IDC_TAB5_Way01, "" },
IDD_TAB5, IDC_TAB5_Way02, "" },
IDD_TAB5, IDC_TAB5_Way03, "" },
IDD_TAB5, IDC_TAB5_Way04, "" },
IDD_TAB5, IDC_TAB5_Way05, "" },
IDD_TAB5, IDC_TAB5_Way06, "" },
IDD_TAB5, IDC_TAB5_Way11, "" },
IDD_TAB5, IDC_TAB5_Way12, "" },
IDD_TAB5, IDC_TAB5_Way13, "" },
IDD_TAB5, IDC_TAB5_Way14, "" },
IDD_TAB5, IDC_TAB5_Way15, "" },
IDD_TAB5, IDC_TAB5_Way16, "" },
IDD_TAB5, IDC_TAB5_Way21, "" },
IDD_TAB5, IDC_TAB5_Way22, "" },
IDD_TAB5, IDC_TAB5_Way23, "" },
IDD_TAB5, IDC_TAB5_Way24, "" },
IDD_TAB5, IDC_TAB5_Way25, "" },
IDD_TAB5, IDC_TAB5_Way26, "" },
IDD_TAB5, IDC_TAB5_Way31, "" },
IDD_TAB5, IDC_TAB5_Way32, "" },
IDD_TAB5, IDC_TAB5_Way33, "" },
};

```

HWND hToolTip;

HWND CreateToolTipCtrl(HWND hParent, int ToolSet, bool Relay)

```

{
    if (!RegOptions.ToolTips) return 0;

    HWND hTip = CreateWindowEx(NULL, TOOLTIPS_CLASS, NULL,
        WS_POPUP | TTS_NOPREFIX | TTS_ALWAYSTIP | TTS_BALLOON,
        CW_USEDEFAULT, CW_USEDEFAULT,
        CW_USEDEFAULT, CW_USEDEFAULT,
        hParent, NULL, hInstance,
        NULL);

    SetWindowPos(hTip, HWND_TOPMOST, 0, 0, 0, 0,
        SWP_NOMOVE | SWP_NOSIZE | SWP_NOACTIVATE);

    SendMessage(hTip, TTM_ACTIVATE, TRUE, 0);

    SendMessage(hTip, TTM_SETTIPTEXTCOLOR, RGB(255, 50, 50), 0);
    SendMessage(hTip, TTM_SETTIPBKCOLOR, RGB(255, 255, 220), 0);

    SendMessage(hTip, TTM_SETDELAYTIME, TIDT_AUTOMATIC, 1000);
    SendMessage(hTip, TTM_SETMAXTIPWIDTH, 0, 300);

    TOOLINFO ti;
    ZeroMemory(&ti, sizeof ti);

    ti.cbSize = sizeof ti;
    ti.uFlags = TTF_IDISHWND | (Relay ? TTF_SUBCLASS : 0) | TTF_TRANSPARENT;
    ti.hwnd = hParent;
    ti.hinst = hInstance;

    for(int z=0; z<sizeof ToolTips / sizeof ToolTips[0]; z++)
    {
        if (ToolTips[z].ToolSet == ToolSet)
        {

```

```
ti.uId = (int)GetDlgItem(hParent,ToolTips[z].CtrlID);
ti.lpszText = ToolTips[z].Text;

if (!ToolTips[z].Text || *ToolTips[z].Text == 0) continue;

SendMessage(hTip,TM_ADDTOOL,0,(LPARAM) &ti);
}
}
return hTip;
}
```



```

"Wormskull",10,'sk02',1,1,'mh03',5,5,'mm00',10,10,'rp00',25,25,0,0,0,0,0,0,0,0,0,0 },
"Howltusk",10,'ar03',2,2,'at00',3,3,'ar02',40,40,'dm03',35,35,0,0,0,0,0,0,0,0,0,0 },
"Undead Crown",10,'mh03',4,4,'ar00',8,8,'rp00',50,50,'dc02',1,1,0,0,0,0,0,0,0,0,0,0 },
"The Face of Horror",10,'hw00',1,1,'st00',20,20,'ra00',5,5,'md01',50,50,0,0,0,0,0,0,0,0,0,0 },
"Greyform",10,'ar03',3,3,'rc00',20,20,'rf00',20,20,'dx00',10,10,'mh03',5,5,0,0,0,0,0,0,0,0,0,0 },
"Blinkbats Form",10,'ar08',16,16,'ve00',1,1,'ar00',25,25,'df00',3,3,'df01',6,6,0,0,0,0,0,0,0,0,0,0 },
"The Centurion",10,'ar00',30,30,'ht00',25,25,'ar01',2,2,'mh00',15,15,'mm00',15,15,'hl12',15,15,'lf00',3,3 },
"Twitchthroee",10,'at01',1,1,'dx00',10,10,'bl00',25,25,'ar00',15,15,'st00',10,10,0,0,0,0,0,0,0,0,0,0 },
"Darkglow",10,'ht00',20,20,'ra01',5,5,'lt00',3,3,'ar09',25,25,'ra00',10,10,0,0,0,0,0,0,0,0,0,0 },
"Hawkmail",10,'ar00',12,12,'rc01',15,15,'rc00',15,15,'sp10',1,1,0,0,0,0,0,0,0,0,0,0 },
"Sparking Mail",10,'ar00',40,40,'dl00',1,1,'dl01',10,10,'at04',1,1,0,0,0,0,0,0,0,0,0,0 },
"Venomsward",10,'dp00',24,24,'dp01',32,32,'dm02',50,50,'rp01',15,15,'lt00',2,2,'dp02',75,75,'rp00',15,15 },
"Iceblink",10,'sp01',1,1,'rc00',30,30,'lt00',4,4,'ar03',1,1,0,0,0,0,0,0,0,0,0,0 },
"Boneflesh",10,'mh03',5,5,'ar00',35,35,'ht00',35,35,0,0,0,0,0,0,0,0,0,0,0,0 },
"Rockfleece",10,'rq00',-10,-10,'ar00',25,25,'rp00',50,50,'ar01',3,3,'st00',5,5,0,0,0,0,0,0,0,0,0,0 },
"Rattlecage",10,'hw00',1,1,'ht00',45,45,'sp03',25,25,'ar00',45,45,0,0,0,0,0,0,0,0,0,0,0,0 },
"Goldskin",10,'ar00',75,75,'ra00',30,30,'at00',1,10,'lt00',2,2,0,0,0,0,0,0,0,0,0,0,0,0 },
"Victors Silk",10,'mm03',5,5,'sk08',1,1,'lt00',2,2,0,0,0,0,0,0,0,0,0,0,0,0,0,0 },
"Heavenly Garb",10,'ar02',100,100,'ra00',10,10,'st00',25,25,0,0,0,0,0,0,0,0,0,0,0,0,0,0 },
"Pelta Lunata",10,'ar00',40,40,'mh00',10,10,'st00',2,2,'mm00',10,10,0,0,0,0,0,0,0,0,0,0,0,0 },
"Umbral Disk",10,'hw01',1,1,'dx00',10,10,'ar00',18,18,'mh00',20,20,'lt00',-2,-2,0,0,0,0,0,0,0,0,0,0 },
"Stormguild",10,'ar03',1,1,'rl00',25,25,'ar00',15,15,'dl00',1,1,'dl01',6,6,0,0,0,0,0,0,0,0,0,0 },
"Wall of the Eyeless",10,'sp05',5,5,'mm03',3,3,'ca02',20,20,'rp00',20,20,0,0,0,0,0,0,0,0,0,0,0,0 },
"Swordback Hold",10,'at00',5,5,'bl00',20,20,'sp02',50,50,'sp06',3,5,0,0,0,0,0,0,0,0,0,0,0,0 },
"Steelclash",10,'bl00',25,25,'sk01',1,1,'ar01',3,3,'lt00',3,3,0,0,0,0,0,0,0,0,0,0,0,0 },
"Bverrit Keep",10,'ar00',20,20,'rf00',25,25,'st00',5,5,'ar03',4,4,0,0,0,0,0,0,0,0,0,0,0,0 },
"The Ward",10,'ar00',40,40,'ar03',2,2,'st00',10,10,'bl00',10,10,0,0,0,0,0,0,0,0,0,0,0,0 },
"The Hand of Broc",10,'mm03',3,3,'mh03',3,3,'rp00',10,10,'mm00',20,20,0,0,0,0,0,0,0,0,0,0,0,0 },
"Bloodfist",10,'dm01',5,5,'mh00',40,40,'gh02',30,30,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0 },
"Chance Guards",10,'ib00',200,200,'ib01',24,24,'ht00',25,25,'ar00',15,15,'lt00',2,2,0,0,0,0,0,0,0,0,0,0 },
"Magefist",10,'ca02',20,20,'hl11',25,25,'sk07',1,1,'df00',1,1,'df01',5,5,0,0,0,0,0,0,0,0,0,0 },
"Frostburn",10,'ar00',30,30,'dm02',85,85,'mm01',40,40,'dc00',1,1,'dc01',6,6,'dc03',50,50,0,0,0,0,0,0,0,0 },
"Hotspur",10,'rf01',15,15,'mh00',15,15,'df00',3,3,'df01',6,6,0,0,0,0,'rf00',15,15,0,0,0,0,0,0,0,0 },
"Gorefoot",10,'sp06',3,5,'ve01',10,10,'mm03',2,2,'at00',2,2,0,0,0,0,0,0,0,0,0,0,0,0 },
"Treads of Cthon",10,'ve02',1,1,'ar08',50,50,'hl13',50,50,'mh00',10,10,0,0,0,0,0,0,0,0,0,0,0,0 },
"Goblin Toe",10,'sp03',25,25,'ar01',1,1,'ar03',1,1,'ar00',5,5,'lt00',-1,-1,0,0,0,0,0,0,0,0,0,0 },
"Tearhaunch",10,'ar00',10,10,'st00',5,5,'dx00',5,5,'ve01',1,1,'ra00',10,10,0,0,0,0,0,0,0,0,0,0 },
"Lenyms Cord",10,'mm00',15,15,'hl11',30,30,'ra00',5,5,'lt00',1,1,0,0,0,0,0,0,0,0,0,0,0,0 },
"Snakecord",10,'dp00',16,16,'dp01',24,32,'dp02',75,75,'rp00',25,25,'ar00',11,11,'lf00',5,5,0,0,0,0,0,0,0,0 },
"Nightsmoke",10,'ra00',10,10,'dm03',50,50,'mm00',20,20,'ar01',2,2,0,0,0,0,0,0,0,0,0,0,0,0 },
"Goldwrap",10,'ib01',30,30,'lt00',2,2,'ar00',40,40,'at01',10,10,0,0,0,0,0,0,0,0,0,0,0,0 },
"Bladebuckle",10,'at00',8,8,'ar00',20,20,'ar01',3,3,'st00',5,5,'dx00',10,10,0,0,0,0,0,0,0,0,0,0 },
"Nokozan Relic",10,'df00',3,3,'rf01',10,10,'rf00',10,10,'lt00',3,3,'df01',6,6,0,0,0,0,0,0,0,0,0,0 },
"The Eye of Etlich",10,'ar08',10,40,'lt00',1,5,'sk08',1,1,'mh03',3,7,'dc00',1,2,'dc01',3,5,'dc03',50,300 },
"The Mahim-Oak Curio",10,'dx00',5,5,'mm00',20,20,'st00',5,5,'mh00',20,20,'ar00',10,10,'ht00',40,40,0,0,0,0,0,0,0,0 },
"Nagelring",10,'ar03',2,2,'at00',3,3,'ht00',18,18,'ib01',15,15,0,0,0,0,0,0,0,0,0,0,0,0 },
"Manald Heal",10,'mm03',4,4,'lf00',5,5,'mh00',20,20,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0 },
"The Stone of Jordan",10,'mm00',20,20,'mm01',25,25,'dl00',1,1,'sk08',1,1,'dl01',12,12,0,0,0,0,0,0,0,0,0,0 },
"Amulet of the Viper",3,'mm00',10,10,'rp00',25,25,'mh00',10,10,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0 },
"Staff of Kings",2,'ra00',10,10,'at03',50,50,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0 },
"Horadric Staff",5,'mm00',10,10,'rp00',25,25,'mh00',10,10,'ra00',10,10,'at03',50,50,0,0,0,0,0,0,0,0,0,0,0,0 },
"Hell Forge Hammer",5,'df00',5,5,'df01',20,20,'rf00',40,40,'ar00',35,35,0,0,0,0,0,0,0,0,0,0,0,0 },
"KhalimFlail",5,'dl00',1,1,'dl01',20,20,'at03',50,50,'ht00',40,40,0,0,0,0,0,0,0,0,0,0,0,0,0,0 },
"SuperKhalimFlail",5,'dl00',1,1,'dl01',40,40,'at03',50,50,'ht00',40,40,'mm03',6,6,'mh03',6,6,0,0,0,0,0,0,0,0,0,0 },
;

```

```
int nUniqueItems = sizeof UniqueItems / sizeof UniqueItems[0];
```

```

// Main.cpp from D2E

#include "JamellaD2E.h"
#include <time.h>
#include <shlwapi.h>

HINSTANCE hInstance;

inline void DoCRC();

DWORD GetDllVersion(LPCTSTR DllName)
{
    HINSTANCE hInst;
    DWORD dwVersion = 0;

    hInst = LoadLibrary(DllName);

    if(hInst)
    {
        DLLGETVERSIONPROC pDllGetVersion;

        pDllGetVersion = (DLLGETVERSIONPROC) GetProcAddress(hInst, "DllGetVersion");

        if(pDllGetVersion)
        {
            DLLVERSIONINFO dvi;
            HRESULT hr;

            ZeroMemory(&dvi, sizeof(dvi));
            dvi.cbSize = sizeof(dvi);

            hr = (*pDllGetVersion)(&dvi);

            if (hr == NOERROR)
            {
                dwVersion = MAKEWORD(dvi.dwMinorVersion, dvi.dwMajorVersion);
            }
        }

        FreeLibrary(hInst);
    }
    return dwVersion;
}

int PASCAL WinMain(HINSTANCE hInstance,
                  HINSTANCE hPrevInstance,
                  LPSTR lpszCmdLine,
                  int nCmdShow)
{
    ::hInstance = hInstance;
    srand((unsigned)time(NULL));

    if(GetDllVersion(TEXT("comctl32.dll")) < _WIN32_IE)
    {
        MessageBox("Your system uses a Common Control Library prior to 5.80.\nThe editor requires one >= 5.80.\nDownload it from my web pages http://jamella.dyns.cx or from Microsoft.");
        return -1;
    }

    INITCOMMONCONTROLSEX cci;
    cci.dwSize = sizeof cci;
    cci.dwICC = ICC_PROGRESS_CLASS | ICC_TAB_CLASSES | ICC_TREEVIEW_CLASSES;
    if (!InitCommonControlsEx(&cci))
    {
        MessageBox("The editor could not initialize the common control library.\nThis is major operating system failure. You better watch out.");
        return -1;
    }

    HINSTANCE hRichEdit = LoadLibrary("RICHED32.DLL");
    if (!hRichEdit)
    {
        MessageBox("The editor could not load the RichEdit library.\nDownload it from my web pages http://jamella.dyns.cx or from Microsoft.");
        return -1;
    }

    // Parse Command Line Options
    ParseCommandLine();
}

```

```

// DoCRC();

LoadEditorRegistryValues();

int x = MainDialog(lpszCmdLine);

FreeLibrary(hRichEdit);

return x;
}

int ErrorMessage()
{
    char str[260];

    FormatMessage(FORMAT_MESSAGE_FROM_SYSTEM,
        NULL,
        GetLastError(),0,
        (LPTSTR) str,260,
        NULL);

    MessageBox(NULL,str,"Diablo 2 Save Game Editor",
        MB_OK | MB_ICONINFORMATION);

    return false;
}

inline void DoCRC()
{
    // Open File
    HANDLE hFile = CreateFile(ProgramFilePath(),
        GENERIC_READ,FILE_SHARE_READ,NULL,
        OPEN_EXISTING,FILE_ATTRIBUTE_NORMAL,NULL);

    if (hFile == INVALID_HANDLE_VALUE)
    {
        MessageBox(NULL,"Could not open program file for CRC checking!",PROGRAMNAME,
            MB_OK | MB_ICONSTOP | MB_APPLMODAL);
        exit(0);
    }

    const int CRCsize = 1024*3*4;
    BYTE CRCbuffer[CRCsize];
    DWORD *CRCbufferd = (DWORD*)CRCbuffer;
    DWORD CRCread;

    DWORD fsizeread = 0;
    DWORD CRC = 0;

    while(ReadFile(hFile,CRCbuffer,CRCsize,&CRCread,NULL))
    {
        if (CRCread == 0) break;
        fsizeread += CRCread;

        for(int z=0;z<CRCsize/3/4;z+=3)
        {
            CRC += CRCbufferd[z+0] * 1;
            CRC += CRCbufferd[z+1] * 3;
            CRC += CRCbufferd[z+2] * 7;
        }
    }

    if (CRC != 0x00000000)
    {
        MessageBox(NULL,"CRC check of program file failed! This executable was tampered with.\nGet a new one from http://
/jamella.dyns.cx!",PROGRAMNAME,
            MB_OK | MB_ICONSTOP | MB_APPLMODAL);
        exit(0);
    }

    CloseHandle(hFile);
}

```

```

//{{NO_DEPENDENCIES}}
// Microsoft Developer Studio generated include file.
// Used by JamellaD2E.rc
//
#define IDI_ICON 1
#define IDI_D2SICON 2
#define IDI_ITEMICON 3
#define IDOK2 3
#define IDC_CUR_NO 106
#define IDB_WAYPOINT_OFF 201
#define IDB_WAYPOINT_ON 202
#define IDB_QUESTION1 225
#define IDB_QUESTION2 226
#define IDB_QUESTION3 227
#define IDB_QUESTION4 228
#define IDB_QUESTION5 229
#define IDB_QUESTION6 230
#define IDB_QUESTION21 231
#define IDB_QUESTION22 232
#define IDB_QUESTION23 233
#define IDB_QUESTION24 234
#define IDB_QUESTION25 235
#define IDB_QUESTION26 236
#define IDB_QUESTION31 237
#define IDB_QUESTION32 238
#define IDB_QUESTION33 239
#define IDB_QUESTION34 240
#define IDB_QUESTION35 241
#define IDB_QUESTION36 242
#define IDB_QUESTION41 243
#define IDB_QUESTION42 244
#define IDB_QUESTION43 245
#define IDD_COWLEVEL 246
#define IDB_COWLEVEL_Cube 247
#define IDB_COWLEVEL_Portal 248
#define IDB_COWLEVEL_Leg 250
#define IDR_MAIN 252
#define IDD_PROGRESS 259
#define IDB_GRID_STASH 260
#define IDB_GRID_CUBE 261
#define IDB_GRID_INV 262
#define IDB_GRID_BELT 263
#define IDB_INV_WHOLE 264
#define IDB_ITEM_UNKNOWN 273
#define IDC_CUR_MOVE 274
#define IDC_CUR_CROSS 275
#define IDB_NOTPLACEABLE 276
#define IDD_INFO 285
#define IDB_JAMELLASMAIL 286
#define IDB_GRID_2x4 287
#define IDB_WEBLINK 288
#define IDD_TAB2E 289
#define IDD_TAB2Rnd 290
#define IDD_TAB2Magic 292
#define IDD_TAB2SS 293
#define IDD_TAB2Rare 295
#define IDC_CUR_ADD 296
#define IDD_SAVE 297
#define IDD_TAB2Quantity 298
#define IDD_TAB2Durability 299
#define IDD_TAB2Defense 300
#define IDR_WAVE_JamellaSound 302
#define IDD_TAB2Gems7 303
#define IDR_BATCH 305
#define IDD_TAB2Gems1 306
#define IDD_TAB2Gems2 307
#define IDB_PLUS16 308
#define IDN_Sorceress 309
#define IDN_Barbarian 310
#define IDN_Necromancer 311
#define IDN_Paladin 312
#define IDN_Amazon 313
#define IDD_TAB2Ear 314
#define IDD_NEW 315
#define IDD_RENAME 316
#define IDC_CUR_MOVECOPY 317
#define IDD_TAB2RingImage 318
#define IDD_TAB2AmuletImage 319
#define IDD_IBWSR 322

```

```

#define IDD_UOPTIONS 323
#define IDB_GRID_2x4_Black 327
#define IDD_TAB2Gems3 328
#define IDN_SetTyrael 330
#define IDD_HELP 336
#define IDH_TAB2Magic 340
#define IDH_TAB2Rare 342
#define IDD_EOPTIONS 343
#define IDI_CHELP 344
#define IDD_TAB2SearchA 346
#define IDD_TAB2S 346
#define IDH_TAB2S 349
#define IDC_TAB3_Bonus 1074
#define IDC_TAB3_BonusPlus 1075
#define IDC_TAB5_Diff1 1076
#define IDC_TAB5_Diff2 1077
#define IDC_TAB5_Diff3 1078
#define IDC_TAB4_Act1 1079
#define IDC_TAB5_Batch 1079
#define IDC_TAB4_Act2 1080
#define IDC_TAB4_Act3 1081
#define IDC_TAB5_Way01 1081
#define IDC_TAB4_Act4 1082
#define IDC_TAB5_Way02 1082
#define IDC_TAB5_Way03 1083
#define IDC_TAB5_Way04 1084
#define IDC_TAB5_Way05 1085
#define IDC_TAB5_Way06 1086
#define IDC_TAB5_Way07 1087
#define IDC_TAB5_Way08 1088
#define IDC_TAB5_Way09 1089
#define IDC_TAB5_Way11 1090
#define IDC_TAB5_Way12 1091
#define IDC_TAB5_Way13 1092
#define IDC_TAB5_Way14 1093
#define IDC_TAB5_Way15 1094
#define IDC_TAB5_Way16 1095
#define IDC_TAB5_Way17 1096
#define IDC_TAB5_Way18 1097
#define IDC_TAB5_Way19 1098
#define IDC_TAB5_Way21 1099
#define IDC_TAB5_Way22 1100
#define IDC_TAB5_Way23 1101
#define IDC_TAB5_Way24 1102
#define IDC_TAB5_Way25 1103
#define IDC_TAB5_Way26 1104
#define IDC_TAB5_Way27 1105
#define IDC_TAB5_Way28 1106
#define IDC_TAB5_Way29 1107
#define IDC_TAB5_Way31 1108
#define IDC_TAB5_Way32 1109
#define IDC_TAB5_Way33 1110
#define IDC_TAB1_MaxGoldStash 1111
#define IDC_TAB1_SetMaxGoldPerson 1112
#define IDC_TAB1_SetMaxGoldStash 1113
#define IDC_TAB4_SelAll 1115
#define IDC_TAB4_SetAll1 1116
#define IDC_TAB4_Sel1 1117
#define IDC_TAB4_Diff1 1118
#define IDC_TAB4_Diff2 1119
#define IDC_TAB4_Diff3 1120
#define IDC_TAB4_Text1 1121
#define IDC_TAB4_Text2 1122
#define IDC_TAB4_Text3 1123
#define IDC_TAB4_Text4 1124
#define IDC_TAB4_Sel2 1125
#define IDC_TAB4_Sel3 1126
#define IDC_TAB4_Text5 1127
#define IDC_TAB4_Sel4 1128
#define IDC_TAB4_Sel5 1129
#define IDC_TAB4_Sel6 1130
#define IDC_TAB4_Text6 1131
#define IDC_TAB4_Bmp1 1132
#define IDC_TAB4_Bmp2 1133
#define IDC_TAB4_Bmp3 1134
#define IDC_TAB4_Bmp4 1135
#define IDC_TAB4_Bmp5 1136
#define IDC_TAB4_Bmp6 1137
#define IDC_TAB4_SetAll12 1138

```

```

#define IDC_TAB4_Act2_On 1141
#define IDC_TAB0_Version 1141
#define IDC_TAB4_Act3_On 1142
#define IDC_TAB4_Act4_On 1143
#define IDC_TAB4_CowLevel 1146
#define IDC_COWLEVEL_TextA 1148
#define IDC_COWLEVEL_TextB 1149
#define IDC_TAB2_ItemTree 1149
#define IDC_COWLEVEL_TextB2 1150
#define IDC_PROGRESS_Bar 1151
#define IDC_PROGRESS_Text 1152
#define IDC_TAB0_BmpJamella 1153
#define IDC_TAB2_Inv 1158
#define IDC_TAB2_Belt 1159
#define IDC_TAB2_Cube 1160
#define IDC_TAB2_Stash 1161
#define IDC_TAB2_ExpertMode 1172
#define IDC_TAB2_Body 1173
#define IDC_TAB1_Difficulty 1179
#define IDC_TAB1_StartTown 1180
#define IDC_INFO_PERMURL 1180
#define IDC_INFO_Email 1182
#define IDC_INFO_Program 1183
#define IDC_INFO_URL 1184
#define IDC_INFO_Date 1185
#define IDC_TAB2_Save 1186
#define IDC_TAB2_Load 1187
#define IDC_TAB2_CopyBuffer 1188
#define IDC_INFO_WEBLINK1 1189
#define IDC_TAB2E_Raw00 1190
#define IDC_TAB2E_Raw02 1191
#define IDD_TAB0 1200
#define IDR_MAINDIALOG 1200
#define IDC_TAB2E_GemNum 1206
#define IDC_TAB2Rnd_Edit 1207
#define IDC_TAB2E_ItemCode 1207
#define IDC_TAB2E_Xoord 1208
#define IDC_TAB2E_Yoord 1209
#define IDC_TAB2E_DWA 1211
#define IDC_TAB2E_DWB 1212
#define IDC_TAB2Magic_PrefixTree 1215
#define IDC_TAB2Magic_SuffixTree 1216
#define IDC_TAB2Search_Progress 1219
#define IDC_TAB2SA_Counter 1219
#define IDC_TAB2Search_Current 1220
#define IDC_TAB2SA_Current 1220
#define IDC_TAB2_RichText 1222
#define IDC_TAB2E_RandA 1223
#define IDC_TAB2E_RandB 1224
#define IDC_TAB2Rare_NamePrefix 1225
#define IDC_TAB2Rare_NameSuffix 1226
#define IDC_TAB2E_Raw01 1230
#define IDC_TAB2E_Raw03 1232
#define IDC_TAB2E_Raw04 1233
#define IDC_TAB2Rare_Tree 1234
#define IDC_TAB2E_Raw05 1234
#define IDC_TAB2Rare_List 1235
#define IDC_TAB2E_Raw06 1235
#define IDC_TAB2Rare_TreePrefix 1235
#define IDC_SAVE_Backup 1236
#define IDC_TAB2E_Raw07 1236
#define IDC_TAB2Magic_PrefixMatch 1237
#define IDC_TAB2E_Raw08 1237
#define IDC_TAB2Magic_SuffixMatch 1238
#define IDC_TAB2E_Raw09 1238
#define IDC_TAB2Magic_Prefix1Match 1239
#define IDC_TAB2E_Raw0A 1239
#define IDC_TAB2Magic_Prefix2Match 1240
#define IDC_TAB2E_Raw0B 1240
#define IDC_TAB2Magic_Prefix3Match 1241
#define IDC_TAB2E_Raw0C 1241
#define IDC_TAB2Magic_Prefix4Match 1242
#define IDC_TAB2E_Raw0D 1242
#define IDC_TAB2Magic_Suffix1Match 1243
#define IDC_TAB2E_Raw0E 1243
#define IDC_TAB2E_Raw0F 1244
#define IDC_TAB2E_Raw10 1245
#define IDC_TAB2Magic_Prefix1ValueMin 1246
#define IDC_TAB2E_Raw11 1246

```

```

#define IDC_TAB2Magic_Prefix1ValueMax 1247
#define IDC_TAB2E_Raw12 1247
#define IDC_TAB2Magic_Prefix2ValueMax 1248
#define IDC_TAB2E_Raw13 1248
#define IDC_TAB2Magic_Prefix2ValueMin 1249
#define IDC_TAB2E_Raw14 1249
#define IDC_TAB2Magic_Prefix3ValueMax 1250
#define IDC_TAB2E_Raw15 1250
#define IDC_TAB2Magic_Prefix3ValueMin 1251
#define IDC_TAB2E_Raw16 1251
#define IDC_TAB2Magic_Prefix4ValueMax 1252
#define IDC_TAB2E_Raw17 1252
#define IDC_TAB2Magic_Prefix4ValueMin 1253
#define IDC_TAB2E_Raw18 1253
#define IDC_TAB2Magic_Prefix1Value 1254
#define IDC_TAB2E_Raw19 1254
#define IDC_TAB2Magic_Prefix2Value 1255
#define IDC_TAB2Search_Slider 1255
#define IDC_TAB2E_Raw1A 1255
#define IDC_TAB2SA_Slider 1255
#define IDC_TAB2Magic_Prefix3Value 1256
#define IDC_TAB2E_Raw1B 1256
#define IDC_TAB2Magic_Prefix4Value 1257
#define IDC_TAB2Search_Stop 1257
#define IDC_TAB2E_Raw1C 1257
#define IDC_TAB2SA_Stop 1257
#define IDC_TAB2Magic_Suffix1ValueMax 1258
#define IDC_TAB2Search_Priority 1258
#define IDC_TAB2E_Raw1D 1258
#define IDC_TAB2SA_Priority 1258
#define IDC_TAB2Magic_Suffix1ValueMin 1259
#define IDC_TAB2Quantity_Set 1259
#define IDC_TAB2E_Raw1E 1259
#define IDC_TAB2Magic_Suffix1Value 1260
#define IDC_TAB2Quantity_Max 1260
#define IDC_TAB2Durability_Max 1260
#define IDC_TAB2E_Raw1F 1260
#define IDC_TAB2Durability_Set 1261
#define IDC_TAB2E_UniqueCode 1261
#define IDC_TAB2Defense_Value 1262
#define IDC_TAB2Defense_Range 1263
#define IDC_TAB2Rare_Average 1263
#define IDC_TAB2E_BodyCode 1263
#define IDC_TAB2Magic_Average 1264
#define IDC_TAB2E_MagicLevel 1264
#define IDC_TAB2E_ItemCodeChar 1265
#define IDC_TAB2Gems_Sel1 1266
#define IDC_TAB2E_Container 1266
#define IDC_TAB2Gems_Sel2 1267
#define IDC_TAB2Gems_Sel3 1268
#define IDC_TAB2Gems_Sel4 1269
#define IDC_TAB2Gems_Bmp1 1270
#define IDC_TAB2Gems_Bmp2 1271
#define IDC_TAB2Gems_Bmp3 1272
#define IDC_TAB2Gems_Info1 1273
#define IDC_TAB2Gems_Info2 1274
#define IDC_TAB2Gems_Info3 1275
#define IDC_TAB2Gems_Frame1 1276
#define IDC_TAB2Gems_Frame2 1277
#define IDC_TAB2Gems_Frame3 1278
#define IDC_TAB2Gems_Frame4 1279
#define IDC_TAB2Gems_Bmp4 1280
#define IDC_TAB1_Batch 1281
#define IDC_TAB2Gems_Info4 1281
#define IDC_TAB3_Batch 1282
#define IDC_TAB1_StatsLink 1283
#define IDC_TAB2Ear_Name 1284
#define IDC_TAB2Ear_Class 1285
#define IDC_TAB2Ear_Level 1286
#define IDC_TAB1_Rename 1286
#define IDC_TAB2Gems_Frame5 1286
#define IDC_NEW_Class 1287
#define IDC_TAB2Gems_Bmp5 1287
#define IDC_NEW_Name 1288
#define IDC_TAB2Gems_Sel5 1288
#define IDC_TAB2Gems_Info5 1289
#define IDC_RENAME_Move 1290
#define IDC_TAB2Gems_Frame6 1290
#define IDC_RENAME_Copy 1291

```

```

#define IDC_TAB2Gems_Bmp6 1291
#define IDC_RENAME_Name 1292
#define IDC_TAB2Gems_Sel6 1292
#define IDC_TAB2Gems_Info6 1293
#define IDC_TAB2Gems_Frame7 1294
#define IDC_TAB2AmuletImage_Image1 1295
#define IDC_TAB2Gems_Bmp7 1295
#define IDC_TAB2AmuletImage_Image2 1296
#define IDC_TAB2Gems_Sel7 1296
#define IDC_TAB2RingImage_Image1 1297
#define IDC_TAB2AmuletImage_Image3 1297
#define IDC_TAB2Gems_Info7 1297
#define IDC_TAB2RingImage_Image2 1298
#define IDC_TAB2RingImage_Image3 1299
#define IDC_TAB2RingImage_Image4 1300
#define IDD_TAB1 1300
#define IDC_TAB1_MaxGoldPerson 1300
#define IDC_TAB2RingImage_Image5 1301
#define IDC_TAB1_Name 1301
#define IDC_TAB1_Class 1302
#define IDC_TAB1_Level 1303
#define IDC_TAB1_Experience 1304
#define IDC_TAB1_Char1 1305
#define IDC_TAB1_Char2 1306
#define IDC_TAB1_Char3 1307
#define IDC_TAB1_Char4 1308
#define IDC_TAB1_Char5 1309
#define IDC_TAB1_Plus1 1310
#define IDC_TAB1_Plus2 1311
#define IDC_TAB1_Plus3 1312
#define IDC_TAB2E_ItemRecordID 1312
#define IDC_TAB1_Plus4 1313
#define IDC_TAB1_Plus5 1314
#define IDC_TAB1_GoldPerson 1315
#define IDC_TAB1_HealthMax 1316
#define IDC_HELP_Text 1316
#define IDC_TAB1_Health 1318
#define IDC_TAB1_StaminaMax 1319
#define IDC_OPTIONS_IFormat1 1319
#define IDC_TAB1_Stamina 1320
#define IDC_OPTIONS_IFormat2 1320
#define IDC_TAB2Search_Total 1320
#define IDC_TAB2SA_Scope 1320
#define IDC_TAB1_ManaMax 1321
#define IDC_OPTIONS_IFormat3 1321
#define IDC_TAB1_Mana 1322
#define IDC_TAB2Rare_Check1 1322
#define IDC_TAB1_Dead 1323
#define IDC_TAB2Rare_Text1 1323
#define IDC_TAB1_Hardcore 1324
#define IDC_TAB2Rare_Text2 1324
#define IDC_TAB1_GoldStash 1325
#define IDC_TAB2Rare_Text3 1325
#define IDC_TAB2Rare_Text4 1326
#define IDC_TAB2Rare_Text5 1327
#define IDC_TAB2Rare_Check2 1328
#define IDC_TAB2Rare_Check3 1329
#define IDC_TAB2Rare_Check4 1330
#define IDC_TAB2Rare_Check5 1331
#define IDC_TAB2Rare_Check6 1332
#define IDC_TAB2Rare_Text6 1333
#define IDC_UOPTIONS_AllSocketable 1334
#define IDC_EOPTIONS_7Gems 1335
#define IDC_UOPTIONS_ExceedQuantity 1336
#define IDC_UOPTIONS_Tooltips 1337
#define IDC_IBWSR_Bitmap 1338
#define IDC_UOPTIONS_AnnoyingMsgs 1338
#define IDC_IBWSR_RichText 1339
#define IDC_TAB2Magic_LockELevel 1340
#define IDC_TAB2Magic_LockValue 1341
#define IDC_TAB2Magic_CurrentELevel 1342
#define IDC_NEW_CreateNewbie 1343
#define IDC_NEW_Templates 1344
#define IDC_NEW_Description 1345
#define IDC_CHELP 1346
#define IDC_TAB2Rare_TreeSuffix 1347
#define IDC_TAB2Rare_LockELevel 1348
#define IDC_TAB2Rare_CurrentELevel 1349
#define IDC_TAB2Rare_LockValue 1350

```



```

#define IDC_UOPTIONS_Associations 1352
#define IDC_TAB2_HistoryBack 1353
#define IDC_TAB2_HistoryNext 1354
#define IDC_TAB2E_FindInfo 1357
#define IDC_TAB2E_Decode 1358
#define IDC_TAB2Rare_Clear 1358
#define IDC_TAB2Magic_Clear 1359
#define IDC_TAB2S_Expand 1360
#define IDC_TAB2SS_Expand 1360
#define IDC_TAB2Search_Contract 1361
#define IDC_TAB2SS_Progress 1362
#define IDC_TAB2SS_Counter 1362
#define IDC_TAB2SS_Current 1363
#define IDC_TAB2SS_Scope 1364
#define IDC_TAB2SS_Stop 1365
#define IDC_TAB2SA_TraverseMagicLevels 1366
#define IDC_TAB2SA_HitSelection 1367
#define IDC_TAB2SA_HitList 1368
#define IDC_TAB2SA_MagicLevel 1369
#define IDC_TAB2SA_Static1 1370
#define IDC_TAB2SA_Static2 1371
#define IDC_TAB2SA_Static3 1372
#define IDC_TAB2SA_Static4 1373
#define IDC_TAB2SA_Static5 1374
#define IDC_TAB2SA_Static6 1375
#define IDC_TAB2SA_Static7 1376
#define IDC_TAB2AS_Speed 1377
#define IDC_TAB2E_ItemList 1378
#define IDC_TAB2ItemList 1382
#define IDC_INFO_LINK 1384
#define IDC_TAB2_OpenCube 1385
#define IDC_TAB2_OpenBelt 1386
#define IDC_TAB2_OpenStash 1387
#define IDC_TAB2Grid_Grid 1387
#define IDD_TAB2 1400
#define IDD_TAB3 1500
#define IDC_TAB3_Frame_A 1501
#define IDC_TAB3_Frame_B 1502
#define IDC_TAB3_Frame_C 1503
#define IDC_TAB3_Edit_A0 1504
#define IDC_TAB3_Edit_A1 1505
#define IDC_TAB3_Edit_A2 1506
#define IDC_TAB3_Edit_A3 1507
#define IDC_TAB3_Edit_A4 1508
#define IDC_TAB3_Edit_A5 1509
#define IDC_TAB3_Edit_A6 1510
#define IDC_TAB3_Edit_A7 1511
#define IDC_TAB3_Edit_A8 1512
#define IDC_TAB3_Edit_A9 1513
#define IDC_TAB3_Edit_B0 1514
#define IDC_TAB3_Edit_B1 1515
#define IDC_TAB3_Edit_B2 1516
#define IDC_TAB3_Edit_B3 1517
#define IDC_TAB3_Edit_B4 1518
#define IDC_TAB3_Edit_B5 1519
#define IDC_TAB3_Edit_B6 1520
#define IDC_TAB3_Edit_B7 1521
#define IDC_TAB3_Edit_B8 1522
#define IDC_TAB3_Edit_B9 1523
#define IDC_TAB3_Edit_C0 1524
#define IDC_TAB3_Edit_C1 1525
#define IDC_TAB3_Edit_C2 1526
#define IDC_TAB3_Edit_C3 1527
#define IDC_TAB3_Edit_C4 1528
#define IDC_TAB3_Edit_C5 1529
#define IDC_TAB3_Edit_C6 1530
#define IDC_TAB3_Edit_C7 1531
#define IDC_TAB3_Edit_C8 1532
#define IDC_TAB3_Edit_C9 1533
#define IDC_TAB3_Bitmap_A0 1534
#define IDC_TAB3_Bitmap_A1 1535
#define IDC_TAB3_Bitmap_A2 1536
#define IDC_TAB3_Bitmap_A3 1537
#define IDC_TAB3_Bitmap_A4 1538
#define IDC_TAB3_Bitmap_A5 1539
#define IDC_TAB3_Bitmap_A6 1540
#define IDC_TAB3_Bitmap_A7 1541
#define IDC_TAB3_Bitmap_A8 1542
#define IDC_TAB3_Bitmap_A9 1543

```

```

#define IDC_TAB3_Bitmap_B0      1544
#define IDC_TAB3_Bitmap_B1      1545
#define IDC_TAB3_Bitmap_B2      1546
#define IDC_TAB3_Bitmap_B3      1547
#define IDC_TAB3_Bitmap_B4      1548
#define IDC_TAB3_Bitmap_B5      1549
#define IDC_TAB3_Bitmap_B6      1550
#define IDC_TAB3_Bitmap_B7      1551
#define IDC_TAB3_Bitmap_B8      1552
#define IDC_TAB3_Bitmap_B9      1553
#define IDC_TAB3_Bitmap_C0      1554
#define IDC_TAB3_Bitmap_C1      1555
#define IDC_TAB3_Bitmap_C2      1556
#define IDC_TAB3_Bitmap_C3      1557
#define IDC_TAB3_Bitmap_C4      1558
#define IDC_TAB3_Bitmap_C5      1559
#define IDC_TAB3_Bitmap_C6      1560
#define IDC_TAB3_Bitmap_C7      1561
#define IDC_TAB3_Bitmap_C8      1562
#define IDC_TAB3_Bitmap_C9      1563
#define IDC_TAB3_Prop_Bitmap     1564
#define IDC_TAB3_Track           1565
#define IDC_TAB3_Prop_Edit       1566
#define IDC_TAB3_Prop_Effect     1567
#define IDD_TAB5                 1600
#define IDD_TAB4                 1700
#define IDD_TAB2ItemList         1702
#define IDD_TAB2Grid            1703
#define IDD_TAB2ExGrid          1704
#define IDC_TAB2_AttrRandom      1800
#define IDC_TAB2_Batch          1801
#define IDR_EXIT                 10002
#define IDB_ITEM_RING5          11277
#define IDB_ITEM_AMULET2        11278
#define IDB_ITEM_AMULET3        11279
#define IDB_ITEM_RING1          11280
#define IDB_ITEM_RING2          11281
#define IDB_ITEM_RING3          11282
#define IDB_ITEM_RING4          11283
#define IDB_ITEM_AMULET1        11284
#define IDB_TAB1                 20000
#define IDB_TAB2                 20001
#define IDB_TAB3                 20002
#define IDB_TAB4                 20003
#define IDB_TAB5                 20004
#define IDB_JAMELLA              21001
#define IDB_PLUS                  22000
#define IDB_SKILL_A01            23100
#define IDB_SKILL_A02            23101
#define IDB_SKILL_A03            23102
#define IDB_SKILL_A04            23103
#define IDB_SKILL_A05            23104
#define IDB_SKILL_A06            23105
#define IDB_SKILL_A07            23106
#define IDB_SKILL_A08            23107
#define IDB_SKILL_A09            23108
#define IDB_SKILL_A10            23109
#define IDB_SKILL_A11            23110
#define IDB_SKILL_A12            23111
#define IDB_SKILL_A13            23112
#define IDB_SKILL_A14            23113
#define IDB_SKILL_A15            23114
#define IDB_SKILL_A16            23115
#define IDB_SKILL_A17            23116
#define IDB_SKILL_A18            23117
#define IDB_SKILL_A19            23118
#define IDB_SKILL_A20            23119
#define IDB_SKILL_A21            23120
#define IDB_SKILL_A22            23121
#define IDB_SKILL_A23            23122
#define IDB_SKILL_A24            23123
#define IDB_SKILL_A25            23124
#define IDB_SKILL_A26            23125
#define IDB_SKILL_A27            23126
#define IDB_SKILL_A28            23127
#define IDB_SKILL_A29            23128
#define IDB_SKILL_A30            23129
#define IDB_SKILL_S01            23200
#define IDB_SKILL_S02            23201

```

```
#define IDB_SKILL_S03 23202
#define IDB_SKILL_S04 23203
#define IDB_SKILL_S05 23204
#define IDB_SKILL_S06 23205
#define IDB_SKILL_S07 23206
#define IDB_SKILL_S08 23207
#define IDB_SKILL_S09 23208
#define IDB_SKILL_S10 23209
#define IDB_SKILL_S11 23210
#define IDB_SKILL_S12 23211
#define IDB_SKILL_S13 23212
#define IDB_SKILL_S14 23213
#define IDB_SKILL_S15 23214
#define IDB_SKILL_S16 23215
#define IDB_SKILL_S17 23216
#define IDB_SKILL_S18 23217
#define IDB_SKILL_S19 23218
#define IDB_SKILL_S20 23219
#define IDB_SKILL_S21 23220
#define IDB_SKILL_S22 23221
#define IDB_SKILL_S23 23222
#define IDB_SKILL_S24 23223
#define IDB_SKILL_S25 23224
#define IDB_SKILL_S26 23225
#define IDB_SKILL_S27 23226
#define IDB_SKILL_S28 23227
#define IDB_SKILL_S29 23228
#define IDB_SKILL_S30 23229
#define IDB_SKILL_N01 23300
#define IDB_SKILL_N02 23301
#define IDB_SKILL_N03 23302
#define IDB_SKILL_N04 23303
#define IDB_SKILL_N05 23304
#define IDB_SKILL_N06 23305
#define IDB_SKILL_N07 23306
#define IDB_SKILL_N08 23307
#define IDB_SKILL_N09 23308
#define IDB_SKILL_N10 23309
#define IDB_SKILL_N11 23310
#define IDB_SKILL_N12 23311
#define IDB_SKILL_N13 23312
#define IDB_SKILL_N14 23313
#define IDB_SKILL_N15 23314
#define IDB_SKILL_N16 23315
#define IDB_SKILL_N17 23316
#define IDB_SKILL_N18 23317
#define IDB_SKILL_N19 23318
#define IDB_SKILL_N20 23319
#define IDB_SKILL_N21 23320
#define IDB_SKILL_N22 23321
#define IDB_SKILL_N23 23322
#define IDB_SKILL_N24 23323
#define IDB_SKILL_N25 23324
#define IDB_SKILL_N26 23325
#define IDB_SKILL_N27 23326
#define IDB_SKILL_N28 23327
#define IDB_SKILL_N29 23328
#define IDB_SKILL_N30 23329
#define IDB_SKILL_P01 23400
#define IDB_SKILL_P02 23401
#define IDB_SKILL_P03 23402
#define IDB_SKILL_P04 23403
#define IDB_SKILL_P05 23404
#define IDB_SKILL_P06 23405
#define IDB_SKILL_P07 23406
#define IDB_SKILL_P08 23407
#define IDB_SKILL_P09 23408
#define IDB_SKILL_P10 23409
#define IDB_SKILL_P11 23410
#define IDB_SKILL_P12 23411
#define IDB_SKILL_P13 23412
#define IDB_SKILL_P14 23413
#define IDB_SKILL_P15 23414
#define IDB_SKILL_P16 23415
#define IDB_SKILL_P17 23416
#define IDB_SKILL_P18 23417
#define IDB_SKILL_P19 23418
#define IDB_SKILL_P20 23419
#define IDB_SKILL_P21 23420
```

```

#define IDB_SKILL_P22 23421
#define IDB_SKILL_P23 23422
#define IDB_SKILL_P24 23423
#define IDB_SKILL_P25 23424
#define IDB_SKILL_P26 23425
#define IDB_SKILL_P27 23426
#define IDB_SKILL_P28 23427
#define IDB_SKILL_P29 23428
#define IDB_SKILL_P30 23429
#define IDB_SKILL_B01 23500
#define IDB_SKILL_B02 23501
#define IDB_SKILL_B03 23502
#define IDB_SKILL_B04 23503
#define IDB_SKILL_B05 23504
#define IDB_SKILL_B06 23505
#define IDB_SKILL_B07 23506
#define IDB_SKILL_B08 23507
#define IDB_SKILL_B09 23508
#define IDB_SKILL_B10 23509
#define IDB_SKILL_B11 23510
#define IDB_SKILL_B12 23511
#define IDB_SKILL_B13 23512
#define IDB_SKILL_B14 23513
#define IDB_SKILL_B15 23514
#define IDB_SKILL_B16 23515
#define IDB_SKILL_B17 23516
#define IDB_SKILL_B18 23517
#define IDB_SKILL_B19 23518
#define IDB_SKILL_B20 23519
#define IDB_SKILL_B21 23520
#define IDB_SKILL_B22 23521
#define IDB_SKILL_B23 23522
#define IDB_SKILL_B24 23523
#define IDB_SKILL_B25 23524
#define IDB_SKILL_B26 23525
#define IDB_SKILL_B27 23526
#define IDB_SKILL_B28 23527
#define IDB_SKILL_B29 23528
#define IDB_SKILL_B30 23529
#define IDB_ITEM_THEGNASHER 25003
#define IDB_ITEM_DEATHSPADE 25005
#define IDB_ITEM_BERSERKERSHATCHET 25007
#define IDB_ITEM_TANCREDESCROWBILL 25010
#define IDB_ITEM_MINDREND 25011
#define IDB_ITEM_RAKESCAR 25013
#define IDB_ITEM_FECHMARSAXE 25015
#define IDB_ITEM_GORESHOVEL 25017
#define IDB_ITEM_THECHIEFTAN 25019
#define IDB_ITEM_BRAINHEW 25021
#define IDB_ITEM_THEHUMONGOUS 25023
#define IDB_ITEM_IROSTORCH 25025
#define IDB_ITEM_MAELESTROMWRATH 25027
#define IDB_ITEM_GRAVENSPINE 25029
#define IDB_ITEM_INFERNALTORCH 25031
#define IDB_ITEM_UMESLAMENT 25032
#define IDB_ITEM_FELLOAK 25034
#define IDB_ITEM_KNELLSSTRIKER 25036
#define IDB_ITEM_CIVERBSCUDGEL 25038
#define IDB_ITEM_RUSTHANDLE 25039
#define IDB_ITEM_MILABREGASROD 25041
#define IDB_ITEM_STOUTNAIL 25044
#define IDB_ITEM_CRUSHFLANGE 25046
#define IDB_ITEM_BLOODRISE 25048
#define IDB_ITEM_THEGENERALSTANDOLIGA 25050
#define IDB_ITEM_IRONSTONE 25052
#define IDB_ITEM_BONESNAP 25054
#define IDB_ITEM_STEELDRIVER 25056
#define IDB_ITEM_RIXOTSKEEN 25058
#define IDB_ITEM_BLOODCRESCENT 25060
#define IDB_ITEM_KRINTIZSSKEWER 25063
#define IDB_ITEM_GLEAMSCYTHE 25065
#define IDB_ITEM_AZUREWRATH 25067
#define IDB_ITEM_ISENHARTSLIGHTBRAND 25069
#define IDB_ITEM_GRIWOLDSEDGE 25070
#define IDB_ITEM_CLEGLAWSTOOTH 25072
#define IDB_ITEM_HELLPLAGUE 25073
#define IDB_ITEM_DEATHSTOUCH 25075
#define IDB_ITEM_SHADOWFANG 25078
#define IDB_ITEM_SOULFLAY 25080

```

```

#define IDB_ITEM_KINEMILSAWL 25082
#define IDB_ITEM_BLACKTONGUE 25084
#define IDB_ITEM_RIPSAW 25086
#define IDB_ITEM_THEPATRIARCH 25088
#define IDB_ITEM_THEDIGGLER 25092
#define IDB_ITEM_THEJADETANDO 25094
#define IDB_ITEM_TRICESSHARD 25096
#define IDB_ITEM_THEDRAGONCHANG 25107
#define IDB_ITEM_RAZORTINE 25109
#define IDB_ITEM_BLOODTHIEF 25111
#define IDB_ITEM_LANCEOFYAGGAI 25113
#define IDB_ITEM_THETANNRGOREROD 25115
#define IDB_ITEM_DIMOAKSHEW 25117
#define IDB_ITEM_STEELGOAD 25119
#define IDB_ITEM_SOULHARVEST 25121
#define IDB_ITEM_THEBATTLEBRANCH 25123
#define IDB_ITEM_WOESTAVE 25125
#define IDB_ITEM_BANEASH 25129
#define IDB_ITEM_SERPENTILORD 25131
#define IDB_ITEM_LAZARUSSPIRE 25133
#define IDB_ITEM_CATHANSRULE 25135
#define IDB_ITEM_THESALAMANDER 25136
#define IDB_ITEM_ARCANNASDEATHWAND 25138
#define IDB_ITEM_THEIRONLANGBONG 25139
#define IDB_ITEM_PLUCKEYE 25141
#define IDB_ITEM_WITHERSTRING 25143
#define IDB_ITEM_RIMERAVERN 25145
#define IDB_ITEM_PIERCERIB 25147
#define IDB_ITEM_PULLSPITE 25149
#define IDB_ITEM VIDALASBARB 25151
#define IDB_ITEM_WIZENDRAW 25152
#define IDB_ITEM_ARCTICHORN 25154
#define IDB_ITEM_HELLCLAP 25155
#define IDB_ITEM_BLASTBARK 25157
#define IDB_ITEM_LEADCROW 25159
#define IDB_ITEM_ICHORSTING 25161
#define IDB_ITEM_HELLCAST 25163
#define IDB_ITEM_DOOMSPITTLE 25165
#define IDB_ITEM_RANCIDGAS 25166
#define IDB_ITEM_OIL 25167
#define IDB_ITEM_CHOKINGGAS 25168
#define IDB_ITEM_EXPLODING 25169
#define IDB_ITEM_STRANGLINGGAS 25170
#define IDB_ITEM_FULM 25171
#define IDB_ITEM_DECOYGIDBINN 25172
#define IDB_ITEM_THEGIDBINN 25173
#define IDB_ITEM_WIRTSLEG 25174
#define IDB_ITEM_HORADRICMALUS 25175
#define IDB_ITEM_HELLFORGEHAMMER 25176
#define IDB_ITEM_HORADRICSTAFF 25177
#define IDB_ITEM_SHAFTOFHORADRICSTAFF 25178
#define IDB_ITEM_HANDAXE 25179
#define IDB_ITEM_AXE 25180
#define IDB_ITEM_DOUBLEAXE 25181
#define IDB_ITEM_MILITARYPICK 25182
#define IDB_ITEM_WARAXE 25183
#define IDB_ITEM_LARGEAXE 25184
#define IDB_ITEM_BROADAXE 25185
#define IDB_ITEM_BATTLEAXE 25186
#define IDB_ITEM_GREATAXE 25187
#define IDB_ITEM_GIANTAXE 25188
#define IDB_ITEM_WAND 25189
#define IDB_ITEM_YEWWAND 25190
#define IDB_ITEM_BONEWAND 25191
#define IDB_ITEM_GRIMWAND 25192
#define IDB_ITEM_CLUB 25193
#define IDB_ITEM_SCEPTER 25194
#define IDB_ITEM_GRANDSCEPTER 25195
#define IDB_ITEM_WARSCEPTER 25196
#define IDB_ITEM_SPIKEDCLUB 25197
#define IDB_ITEM_MACE 25198
#define IDB_ITEM_MORNINGSTAR 25199
#define IDB_ITEM_FLAIL 25200
#define IDB_ITEM_WARHAMMER 25201
#define IDB_ITEM_MAUL 25202
#define IDB_ITEM_GREATMAUL 25203
#define IDB_ITEM_SHORTSWORD 25204
#define IDB_ITEM_SCIMITAR 25205
#define IDB_ITEM_SABRE 25206

```

```

#define IDB_ITEM_FALCHION 25207
#define IDB_ITEM_CRYSTALSWORD 25208
#define IDB_ITEM_BROADSWORD 25209
#define IDB_ITEM_LONGSWORD 25210
#define IDB_ITEM_WARSWORD 25211
#define IDB_ITEM_2HSWORD 25212
#define IDB_ITEM_CLAYMORE 25213
#define IDB_ITEM_GIANTSWORD 25214
#define IDB_ITEM_BASTARDSWORD 25215
#define IDB_ITEM_FLAMBERGE 25216
#define IDB_ITEM_GREATSWORD 25217
#define IDB_ITEM_DAGGER 25218
#define IDB_ITEM_DIRK 25219
#define IDB_ITEM_KRIS 25220
#define IDB_ITEM_BLADE 25221
#define IDB_ITEM_THROWINGKNIFE 25222
#define IDB_ITEM_THROWINGAXE 25223
#define IDB_ITEM_BALANCEDKNIFE 25224
#define IDB_ITEM_BALANCEDAXE 25225
#define IDB_ITEM_JAVELIN 25226
#define IDB_ITEM_PILUM 25227
#define IDB_ITEM_SHORTSPEAR 25228
#define IDB_ITEM_GLAIVE 25229
#define IDB_ITEM_THROWINGSPEAR 25230
#define IDB_ITEM_SPEAR 25231
#define IDB_ITEM_TRIDENT 25232
#define IDB_ITEM_BRANDLSTOCK 25233
#define IDB_ITEM_SPETUM 25234
#define IDB_ITEM_PIKE 25235
#define IDB_ITEM_BARDICHE 25236
#define IDB_ITEM_VOULGE 25237
#define IDB_ITEM_SCYTHE 25238
#define IDB_ITEM_POLEAXE 25239
#define IDB_ITEM_HALBERD 25240
#define IDB_ITEM_WARSCYTHE 25241
#define IDB_ITEM_SHORTSTAFF 25242
#define IDB_ITEM_LONGSTAFF 25243
#define IDB_ITEM_GNARLEDSTAFF 25244
#define IDB_ITEM_BATTLESTAFF 25245
#define IDB_ITEM_WARSTAFF 25246
#define IDB_ITEM_SHORTBOW 25247
#define IDB_ITEM_HUNTERSBOBOW 25248
#define IDB_ITEM_LONGBOW 25249
#define IDB_ITEM_COMPOSITEBOW 25250
#define IDB_ITEM_SHORTBATTLEBOW 25251
#define IDB_ITEM_LONGBATTLEBOW 25252
#define IDB_ITEM_SHORTWARBOW 25253
#define IDB_ITEM_LONGWARBOW 25254
#define IDB_ITEM_REPEATINCROSSBOW 25255
#define IDB_ITEM_LIGHTCROSSBOW 25256
#define IDB_ITEM_CROSSBOW 25257
#define IDB_ITEM_HEAVYCROSSBOW 25258
#define IDB_ITEM_KHALIMSFLAIL 25259
#define IDB_ITEM_KHALIMSWILL 25260
#define IDB_ITEM_INFERNALCRANIUM 25262
#define IDB_ITEM_WARBONET 25263
#define IDB_ITEM_ARCANNASHEAD 25265
#define IDB_ITEM_TARNHELM 25266
#define IDB_ITEM_BERSERKERSHEADGEAR 25268
#define IDB_ITEM_COIFOFGLORY 25269
#define IDB_ITEM_ISENHARTSHORNS 25271
#define IDB_ITEM_DUSKDEEP 25272
#define IDB_ITEM_SIGONSVISOR 25274
#define IDB_ITEM_HOWLITUSK 25275
#define IDB_ITEM_IRATHASCOIL 25277
#define IDB_ITEM_MILABREGASDIADEM 25278
#define IDB_ITEM_UNDEADCROWN 25279
#define IDB_ITEM_ARCTICFURS 25284
#define IDB_ITEM_GREYFORM 25285
#define IDB_ITEM VIDALASAMBUSH 25287
#define IDB_ITEM_BLINKBATSFORM 25288
#define IDB_ITEM_THECENTURION 25290
#define IDB_ITEM_TWITCHTHROE 25292
#define IDB_ITEM_DARKGLOW 25295
#define IDB_ITEM_HAWKMAIL 25297
#define IDB_ITEM_CATHANSMESH 25299
#define IDB_ITEM_SPARKLINGMAIL 25300
#define IDB_ITEM_ISENHARTSCASE 25302
#define IDB_ITEM_VENOMSWARD 25303

```

```

#define IDB_ITEM_BERSERKERSHAUBERK 25305
#define IDB_ITEM_ICEBLINK 25306
#define IDB_ITEM_BONEFLESH 25308
#define IDB_ITEM_ROCKFLEECE 25310
#define IDB_ITEM_SIGONSSHELTER 25312
#define IDB_ITEM_RATTLECAGE 25313
#define IDB_ITEM_TANCREDDSPINE 25315
#define IDB_ITEM_GOLDSKIN 25316
#define IDB_ITEM_MILABREGASROBE 25318
#define IDB_ITEM_VICTORSSILK 25319
#define IDB_ITEM_ARCANNASFLESH 25321
#define IDB_ITEM_HEAVENLYGARB 25322
#define IDB_ITEM_HSARUSIRONFIST 25324
#define IDB_ITEM_PELTALUNATA 25325
#define IDB_ITEM_CLEGLAWSCLAW 25327
#define IDB_ITEM_UMBRALEDISK 25328
#define IDB_ITEM_STORMGUILD 25331
#define IDB_ITEM_MILABREGASORB 25333
#define IDB_ITEM_STEELCLASH 25334
#define IDB_ITEM_SIGONSGUARD 25336
#define IDB_ITEM_BVERRITKEEP 25337
#define IDB_ITEM_ISENHARTSPARRY 25339
#define IDB_ITEM_THEWARD 25340
#define IDB_ITEM_DEATHSHAND 25342
#define IDB_ITEM_THEHANDOFBROC 25343
#define IDB_ITEM_BLOODFIST 25345
#define IDB_ITEM_CLEGLAWSPINCERS 25347
#define IDB_ITEM_CHANCEGUARDS 25348
#define IDB_ITEM_IRATHASCUFF 25350
#define IDB_ITEM_ARCTICMITTS 25351
#define IDB_ITEM_MAGEFLST 25352
#define IDB_ITEM_SIGONSGAUNTLETS 25354
#define IDB_ITEM_FROSTBURN 25355
#define IDB_ITEM_TANCREDSHOBNAIIS 25357
#define IDB_ITEM_HOTSPUR 25358
#define IDB_ITEM_GOREFOOT 25360
#define IDB_ITEM_HSARUSIRONHEEL 25362
#define IDB_ITEM_TREADSOFCTHON 25363
#define IDB_ITEM_VIDALASFETLOCK 25365
#define IDB_ITEM_GOBLINTOE 25366
#define IDB_ITEM_SIGONSGREAVES 25368
#define IDB_ITEM_TEARHAUNCH 25369
#define IDB_ITEM_DEATHSGUARD 25371
#define IDB_ITEM_LENMYSCORD 25372
#define IDB_ITEM_ARCTICBINDING 25374
#define IDB_ITEM_SNAKECORD 25375
#define IDB_ITEM_HSARUSIRONSTAY 25377
#define IDB_ITEM_NIGHTSMOKE 25378
#define IDB_ITEM_IRATHASCORD 25380
#define IDB_ITEM_INFERNALBUCKLE 25381
#define IDB_ITEM_GOLDWRAP 25382
#define IDB_ITEM_SIGONSWRAP 25384
#define IDB_ITEM_BLADEBUCKLE 25385
#define IDB_ITEM_TANCREDDSSKULL 25387
#define IDB_ITEM_WORMSKULL 25388
#define IDB_ITEM_WALLOFTHEEYELESS 25390
#define IDB_ITEM_SWORDBACKHOLD 25392
#define IDB_ITEM_CAP 25393
#define IDB_ITEM_SKULLCAP 25394
#define IDB_ITEM_HELM 25395
#define IDB_ITEM_FULLHELM 25396
#define IDB_ITEM_GREATHELM 25397
#define IDB_ITEM_CROWN 25398
#define IDB_ITEM_MASK 25399
#define IDB_ITEM_QUILTIED 25400
#define IDB_ITEM_LEATHER 25401
#define IDB_ITEM_HARDLEATHER 25402
#define IDB_ITEM_STUDDLEATHER 25403
#define IDB_ITEM_RINGMAIL 25404
#define IDB_ITEM_SCALEMAIL 25405
#define IDB_ITEM_CHAINMAIL 25406
#define IDB_ITEM_BREASTPLATE 25407
#define IDB_ITEM_SPLINMAIL 25408
#define IDB_ITEM_PLATEMAIL 25409
#define IDB_ITEM_FIELDPLATE 25410
#define IDB_ITEM_GOTHICPLATE 25411
#define IDB_ITEM_FULLPLATE 25412
#define IDB_ITEM_ANTIENARMOR 25413
#define IDB_ITEM_LIGHTPLATE 25414

```

```

#define IDB_ITEM_BUCKLER 25415
#define IDB_ITEM_SMALLSHIELD 25416
#define IDB_ITEM_LARGESHIELD 25417
#define IDB_ITEM_KITESHIELD 25418
#define IDB_ITEM_TOWERSHIELD 25419
#define IDB_ITEM_GOTHICSHIELD 25420
#define IDB_ITEM_LEATHERGLOVES 25421
#define IDB_ITEM_HEAVYGLOVES 25422
#define IDB_ITEM_CHAINGLOVES 25423
#define IDB_ITEM_LIGHTGAUNTLETS 25424
#define IDB_ITEM_GAUNTLETS 25425
#define IDB_ITEM_LEATHERBOOTS 25426
#define IDB_ITEM_HEAVYBOOTS 25427
#define IDB_ITEM_CHAINBOOTS 25428
#define IDB_ITEM_LIGHTPLATEBOOTS 25429
#define IDB_ITEM_PLATEBOOTS 25430
#define IDB_ITEM_SASH 25431
#define IDB_ITEM_LIGHTBELT 25432
#define IDB_ITEM_BELT 25433
#define IDB_ITEM_HEAVYBELT 25434
#define IDB_ITEM_GIRDLE 25435
#define IDB_ITEM_BONEHELM 25436
#define IDB_ITEM_BONESHIELD 25437
#define IDB_ITEM_SPIKEDSHIELD 25438
#define IDB_ITEM_ELIXEROFVITALITY 25439
#define IDB_ITEM_HPO 25440
#define IDB_ITEM_MPO 25441
#define IDB_ITEM_HPF 25442
#define IDB_ITEM_MPF 25443
#define IDB_ITEM_STAMINA 25444
#define IDB_ITEM_ANTIDOTE 25445
#define IDB_ITEM_REJUV 25446
#define IDB_ITEM_FULLREJUV 25447
#define IDB_ITEM_THAWING 25448
#define IDB_ITEM_TOMEBLUE 25449
#define IDB_ITEM_TOMERED 25450
#define IDB_ITEM_TOPOFHORADRICSTAFF 25462
#define IDB_ITEM_GOLD 25470
#define IDB_ITEM_SCROLLLOFINIFUSS 25472
#define IDB_ITEM_ARROWS 25473
#define IDB_ITEM_TORCH 25474
#define IDB_ITEM_BOLTS 25475
#define IDB_ITEM_SCROLLBLUE 25476
#define IDB_ITEM_SCROLLRED 25477
#define IDB_ITEM_SKELETONJAW 25480
#define IDB_ITEM_SKELETONHRN 25482
#define IDB_ITEM_SKELETONTAL 25483
#define IDB_ITEM_SKELETONFLG 25484
#define IDB_ITEM_SKELETONFNG 25485
#define IDB_ITEM_SKELETONQLL 25486
#define IDB_ITEM_SKELETONSCZ 25488
#define IDB_ITEM_SKELETONSOL 25489
#define IDB_ITEM_KEY 25490
#define IDB_ITEM_BLACKTOWERKEY 25491
#define IDB_ITEM_POTIONOFLIFE 25492
#define IDB_ITEM_JADEFIGURINE 25493
#define IDB_ITEM_GOLDENBIRD 25494
#define IDB_ITEM_LAMESEUSTOME 25495
#define IDB_ITEM_HORADRICCUBE 25496
#define IDB_ITEM_HORADRICSCROLL 25497
#define IDB_ITEM_MOPHISSOULSTONE 25498
#define IDB_ITEM_BOOKOFSKILL 25499
#define IDB_ITEM_EYE 25500
#define IDB_ITEM_HEART 25501
#define IDB_ITEM_BRAIN 25502
#define IDB_ITEM_EAR 25503
#define IDB_ITEM_CHIPPEDAMETHYST 25504
#define IDB_ITEM_FLAWEDAMETHYST 25505
#define IDB_ITEM_AMETHYST 25506
#define IDB_ITEM_FLAWLESSAMETHYST 25507
#define IDB_ITEM_PERFECTAMETHYST 25508
#define IDB_ITEM_CHIPPEDTOPAZ 25509
#define IDB_ITEM_FLAWEDTOPAZ 25510
#define IDB_ITEM_TOPAZ 25511
#define IDB_ITEM_FLAWLESSSTOPAZ 25512
#define IDB_ITEM_PERFECTTOPAZ 25513
#define IDB_ITEM_CHIPPEDSAPPHIRE 25514
#define IDB_ITEM_FLAWEDSAPPHIRE 25515
#define IDB_ITEM_SAPPHIRE 25516

```



```

#define IDB_ITEM_FLAWLESSSAPPHIRE 25517
#define IDB_ITEM_PERFECTSAPPHIRE 25518
#define IDB_ITEM_CHIPPEDEMERALD 25519
#define IDB_ITEM_FLAWEDEMERALD 25520
#define IDB_ITEM_EMERALD 25521
#define IDB_ITEM_FLAWLESSEMERALD 25522
#define IDB_ITEM_PERFECTEMERALD 25523
#define IDB_ITEM_CHIPPEDRUBY 25524
#define IDB_ITEM_FLAWEDRUBY 25525
#define IDB_ITEM_RUBY 25526
#define IDB_ITEM_FLAWLESSRUBY 25527
#define IDB_ITEM_PERFECTRUBY 25528
#define IDB_ITEM_CHIPPEDIAMOND 25529
#define IDB_ITEM_FLAWEDIAMOND 25530
#define IDB_ITEM_DIAMOND 25531
#define IDB_ITEM_FLAWLESSDIAMOND 25532
#define IDB_ITEM_PERFECTDIAMOND 25533
#define IDB_ITEM_MINORHEALING 25534
#define IDB_ITEM_LIGHTHEALING 25535
#define IDB_ITEM_HEALING 25536
#define IDB_ITEM_GREATERHEALING 25537
#define IDB_ITEM_SUPERHEALING 25538
#define IDB_ITEM_MINORMANA 25539
#define IDB_ITEM_LIGHTMANA 25540
#define IDB_ITEM_MANA 25541
#define IDB_ITEM_GREATERMANA 25542
#define IDB_ITEM_SUPERMANA 25543
#define IDB_ITEM_CHIPPEDSKULL 25544
#define IDB_ITEM_FLAWEDSKULL 25545
#define IDB_ITEM_SKULL 25546
#define IDB_ITEM_FLAWLESSSKULL 25547
#define IDB_ITEM_PERFECTSKULL 25548
#define IDR_CLOSE 40001
#define IDR_RELOAD 40004
#define IDR_INFO 40005
#define IDR_OPEN 40006
#define IDR_SAVE 40007
#define IDR_TAB2_BeltFullRejuv 40008
#define IDR_TAB2_RepairAll 40011
#define IDR_TAB2_BeltEmpty 40012
#define IDR_TAB2_BeltRejuv 40013
#define IDR_TAB2_BeltSuperHealing 40014
#define IDR_TAB2_BeltGreaterHealing 40015
#define IDR_TAB2_BeltHealing 40016
#define IDR_TAB2_BeltLightHealing 40017
#define IDR_TAB2_BeltMinorHealing 40018
#define IDR_TAB2_BeltSuperMana 40019
#define IDR_TAB2_BeltGreaterMana 40020
#define IDR_TAB2_BeltMana 40021
#define IDR_TAB2_BeltLightMana 40022
#define IDR_TAB2_BeltMinorMana 40023
#define IDR_TAB2_Slot1FullRejuv 40024
#define IDR_TAB2_Slot1Rejuv 40025
#define IDR_TAB2_Slot1SuperHealing 40026
#define IDR_TAB2_Slot1GreaterHealing 40027
#define IDR_TAB2_Slot1Healing 40028
#define IDR_TAB2_Slot1LightHealing 40029
#define IDR_TAB2_Slot1MinorHealing 40030
#define IDR_TAB2_Slot1SuperMana 40031
#define IDR_TAB2_Slot1GreaterMana 40032
#define IDR_TAB2_Slot1Mana 40033
#define IDR_TAB2_Slot1LightMana 40034
#define IDR_TAB2_Slot1MinorMana 40035
#define IDR_TAB2_Slot2FullRejuv 40036
#define IDR_TAB2_Slot2Rejuv 40037
#define IDR_TAB2_Slot2SuperHealing 40038
#define IDR_TAB2_Slot2GreaterHealing 40039
#define IDR_TAB2_Slot2Healing 40040
#define IDR_TAB2_Slot2LightHealing 40041
#define IDR_TAB2_Slot2MinorHealing 40042
#define IDR_TAB2_Slot2SuperMana 40043
#define IDR_TAB2_Slot2GreaterMana 40044
#define IDR_TAB2_Slot2Mana 40045
#define IDR_TAB2_Slot2LightMana 40046
#define IDR_TAB2_Slot2MinorMana 40047
#define IDR_TAB2_Slot3FullRejuv 40048
#define IDR_TAB2_Slot3Rejuv 40049
#define IDR_TAB2_Slot3SuperHealing 40050
#define IDR_TAB2_Slot3GreaterHealing 40051

```

```

#define IDR_TAB2_Slot3Healing 40052
#define IDR_TAB2_Slot3LightHealing 40053
#define IDR_TAB2_Slot3MinorHealing 40054
#define IDR_TAB2_Slot3SuperMana 40055
#define IDR_TAB2_Slot3GreaterMana 40056
#define IDR_TAB2_Slot3Mana 40057
#define IDR_TAB2_Slot3LightMana 40058
#define IDR_TAB2_Slot3MinorMana 40059
#define IDR_TAB2_Slot4FullRejuv 40060
#define IDR_TAB2_Slot4Rejuv 40061
#define IDR_TAB2_Slot4SuperHealing 40062
#define IDR_TAB2_Slot4GreaterHealing 40063
#define IDR_TAB2_Slot4Healing 40064
#define IDR_TAB2_Slot4LightHealing 40065
#define IDR_TAB2_Slot4MinorHealing 40066
#define IDR_TAB2_Slot4SuperMana 40067
#define IDR_TAB2_Slot4GreaterMana 40068
#define IDR_TAB2_Slot4Mana 40069
#define IDR_TAB2_Slot4LightMana 40070
#define IDR_TAB2_Slot4MinorMana 40071
#define IDR_TAB1_SetAllStats40 40080
#define IDR_TAB1_SetAllStats60 40081
#define IDR_TAB1_SetAllStats80 40083
#define IDR_TAB1_SetAllStats100 40085
#define IDR_TAB1_SetAllStats120 40086
#define IDR_TAB1_SetAllStats140 40087
#define IDR_TAB1_SetAllStats160 40088
#define IDR_TAB1_SetAllStats180 40089
#define IDR_TAB1_SetAllStats200 40090
#define IDR_TAB1_SetAllStats250 40091
#define IDR_TAB1_SetAllStats300 40092
#define IDR_TAB1_SetAllStats350 40093
#define IDR_TAB1_SetAllStats400 40094
#define IDR_TAB1_SetAllStats450 40095
#define IDR_TAB1_SetAllStats500 40096
#define IDR_TAB1_RestoreConstitution 40097
#define IDR_TAB1_SetAllConstitution400 40098
#define IDR_TAB1_SetAllConstitution600 40099
#define IDR_TAB1_SetAllConstitution800 40100
#define IDR_TAB1_SetAllConstitution1000 40101
#define IDR_TAB1_SetAllConstitution1500 40102
#define IDR_TAB1_SetAllConstitution2000 40103
#define IDR_TAB1_SetAllConstitution3000 40104
#define IDR_TAB1_SetAllConstitution5000 40105
#define IDR_TAB3_MaximizeAll 40106
#define IDR_TAB3_SetAll10 40107
#define IDR_TAB3_SetAll14 40108
#define IDR_TAB3_SetAll18 40109
#define IDR_TAB3_SetAll12 40110
#define IDR_TAB3_SetAll16 40111
#define IDR_TAB3_SetAll20 40112
#define IDR_TAB5_ActivateHereAll 40132
#define IDR_TAB5_ActivateAllAll 40133
#define IDR_TAB5_DeactivateHereAll 40134
#define IDR_TAB5_DeactivateAllAll 40135
#define IDR_NEW 40136
#define IDR_UOPTIONS 40139
#define IDR_EOPTIONS 40140
#define IDR_TEXTFILE 40141
#define IDS_SKILL_A01 43100
#define IDS_SKILL_A02 43101
#define IDS_SKILL_A03 43102
#define IDS_SKILL_A04 43103
#define IDS_SKILL_A05 43104
#define IDS_SKILL_A06 43105
#define IDS_SKILL_A07 43106
#define IDS_SKILL_A08 43107
#define IDS_SKILL_A09 43108
#define IDS_SKILL_A10 43109
#define IDS_SKILL_A11 43110
#define IDS_SKILL_A12 43111
#define IDS_SKILL_A13 43112
#define IDS_SKILL_A14 43113
#define IDS_SKILL_A15 43114
#define IDS_SKILL_A16 43115
#define IDS_SKILL_A17 43116
#define IDS_SKILL_A18 43117
#define IDS_SKILL_A19 43118
#define IDS_SKILL_A20 43119

```

```
#define IDS_SKILL_A21 43120
#define IDS_SKILL_A22 43121
#define IDS_SKILL_A23 43122
#define IDS_SKILL_A24 43123
#define IDS_SKILL_A25 43124
#define IDS_SKILL_A26 43125
#define IDS_SKILL_A27 43126
#define IDS_SKILL_A28 43127
#define IDS_SKILL_A29 43128
#define IDS_SKILL_A30 43129
#define IDS_SKILL_S01 43200
#define IDS_SKILL_S02 43201
#define IDS_SKILL_S03 43202
#define IDS_SKILL_S04 43203
#define IDS_SKILL_S05 43204
#define IDS_SKILL_S06 43205
#define IDS_SKILL_S07 43206
#define IDS_SKILL_S08 43207
#define IDS_SKILL_S09 43208
#define IDS_SKILL_S10 43209
#define IDS_SKILL_S11 43210
#define IDS_SKILL_S12 43211
#define IDS_SKILL_S13 43212
#define IDS_SKILL_S14 43213
#define IDS_SKILL_S15 43214
#define IDS_SKILL_S16 43215
#define IDS_SKILL_S17 43216
#define IDS_SKILL_S18 43217
#define IDS_SKILL_S19 43218
#define IDS_SKILL_S20 43219
#define IDS_SKILL_S21 43220
#define IDS_SKILL_S22 43221
#define IDS_SKILL_S23 43222
#define IDS_SKILL_S24 43223
#define IDS_SKILL_S25 43224
#define IDS_SKILL_S26 43225
#define IDS_SKILL_S27 43226
#define IDS_SKILL_S28 43227
#define IDS_SKILL_S29 43228
#define IDS_SKILL_S30 43229
#define IDS_SKILL_N01 43300
#define IDS_SKILL_N02 43301
#define IDS_SKILL_N03 43302
#define IDS_SKILL_N05 43303
#define IDS_SKILL_N04 43304
#define IDS_SKILL_N06 43305
#define IDS_SKILL_N07 43306
#define IDS_SKILL_N08 43307
#define IDS_SKILL_N09 43308
#define IDS_SKILL_N10 43309
#define IDS_SKILL_N11 43310
#define IDS_SKILL_N12 43311
#define IDS_SKILL_N13 43312
#define IDS_SKILL_N14 43313
#define IDS_SKILL_N15 43314
#define IDS_SKILL_N16 43315
#define IDS_SKILL_N17 43316
#define IDS_SKILL_N18 43317
#define IDS_SKILL_N19 43318
#define IDS_SKILL_N20 43319
#define IDS_SKILL_N21 43320
#define IDS_SKILL_N22 43321
#define IDS_SKILL_N23 43322
#define IDS_SKILL_N24 43323
#define IDS_SKILL_N25 43324
#define IDS_SKILL_N26 43325
#define IDS_SKILL_N27 43326
#define IDS_SKILL_N28 43327
#define IDS_SKILL_N29 43328
#define IDS_SKILL_N30 43329
#define IDS_SKILL_P01 43400
#define IDS_SKILL_P02 43401
#define IDS_SKILL_P03 43402
#define IDS_SKILL_P04 43403
#define IDS_SKILL_P05 43404
#define IDS_SKILL_P06 43405
#define IDS_SKILL_P07 43406
#define IDS_SKILL_P08 43407
#define IDS_SKILL_P09 43408
```

```

#define IDS_SKILL_P10 43409
#define IDS_SKILL_P11 43410
#define IDS_SKILL_P12 43411
#define IDS_SKILL_P13 43412
#define IDS_SKILL_P14 43413
#define IDS_SKILL_P15 43414
#define IDS_SKILL_P16 43415
#define IDS_SKILL_P17 43416
#define IDS_SKILL_P18 43417
#define IDS_SKILL_P19 43418
#define IDS_SKILL_P20 43419
#define IDS_SKILL_P21 43420
#define IDS_SKILL_P22 43421
#define IDS_SKILL_P23 43422
#define IDS_SKILL_P24 43423
#define IDS_SKILL_P25 43424
#define IDS_SKILL_P26 43425
#define IDS_SKILL_P27 43426
#define IDS_SKILL_P28 43427
#define IDS_SKILL_P29 43428
#define IDS_SKILL_P30 43429
#define IDS_SKILL_B01 43500
#define IDS_SKILL_B02 43501
#define IDS_SKILL_B03 43502
#define IDS_SKILL_B04 43503
#define IDS_SKILL_B05 43504
#define IDS_SKILL_B06 43505
#define IDS_SKILL_B07 43506
#define IDS_SKILL_B08 43507
#define IDS_SKILL_B09 43508
#define IDS_SKILL_B10 43509
#define IDS_SKILL_B11 43510
#define IDS_SKILL_B12 43511
#define IDS_SKILL_B13 43512
#define IDS_SKILL_B14 43513
#define IDS_SKILL_B15 43514
#define IDS_SKILL_B16 43515
#define IDS_SKILL_B17 43516
#define IDS_SKILL_B18 43517
#define IDS_SKILL_B19 43518
#define IDS_SKILL_B20 43519
#define IDS_SKILL_B21 43520
#define IDS_SKILL_B22 43521
#define IDS_SKILL_B23 43522
#define IDS_SKILL_B24 43523
#define IDS_SKILL_B25 43524
#define IDS_SKILL_B26 43525
#define IDS_SKILL_B27 43526
#define IDS_SKILL_B28 43527
#define IDS_SKILL_B29 43528
#define IDS_SKILL_B30 43529
#define IDS_QUESTION11 44001
#define IDS_QUESTION12 44002
#define IDS_QUESTION13 44003
#define IDS_QUESTION14 44004
#define IDS_QUESTION15 44005
#define IDS_QUESTION16 44006
#define IDS_QUESTION21 44007
#define IDS_QUESTION22 44008
#define IDS_QUESTION23 44009
#define IDS_QUESTION24 44010
#define IDS_QUESTION25 44011
#define IDS_QUESTION26 44012
#define IDS_QUESTION31 44013
#define IDS_QUESTION32 44014
#define IDS_QUESTION33 44015
#define IDS_QUESTION34 44016
#define IDS_QUESTION35 44017
#define IDS_QUESTION36 44018
#define IDS_QUESTION41 44019
#define IDS_QUESTION42 44020
#define IDS_QUESTION43 44021

```

```
// Next default values for new objects
```

```
//
```

```
#ifndef APSTUDIO_INVOKED
```

```
#ifndef APSTUDIO_READONLY_SYMBOLS
```

```
#define _APS_NO_MFC 1
```

```
#define _APS_3D_CONTROLS 1
```

```
#define _APS_NEXT_RESOURCE_VALUE 351
#define _APS_NEXT_COMMAND_VALUE 40142
#define _APS_NEXT_CONTROL_VALUE 1388
#define _APS_NEXT_SYMED_VALUE 120
#endif
#endif
```

```

//Microsoft Developer Studio generated resource script.
//
#include "ResourceIDs.h"

#define APSTUDIO_READONLY_SYMBOLS
////////////////////////////////////
//
// Generated from the TEXTINCLUDE 2 resource.
//
#include "afxres.h"
#include <dlls.h>

////////////////////////////////////
#undef APSTUDIO_READONLY_SYMBOLS

////////////////////////////////////
// Neutral resources

#if !defined(AFX_RESOURCE_DLL) || defined(AFX_TARG_NEU)
#ifdef _WIN32
LANGUAGE LANG_NEUTRAL, SUBLANG_NEUTRAL
#pragma code_page(1252)
#endif // _WIN32

////////////////////////////////////
//
// Dialog
//

IDD_TAB3_DIALOGEX 0, 0, 310, 226
STYLE WS_CHILD
FONT 8, "MS Sans Serif", 0, 0, 0x1
BEGIN
    GROUPBOX        "A", IDC_TAB3_Frame_A, 4, 6, 96, 139, BS_CENTER,
                    WS_EX_TRANSPARENT
    GROUPBOX        "B", IDC_TAB3_Frame_B, 104, 6, 102, 139, BS_CENTER,
                    WS_EX_TRANSPARENT
    GROUPBOX        "C", IDC_TAB3_Frame_C, 210, 6, 96, 139, BS_CENTER,
                    WS_EX_TRANSPARENT
    CONTROL         "", IDC_TAB3_Bitmap_A0, "Static", SS_BITMAP | SS_NOTIFY |
                    WS_TABSTOP, 10, 18, 21, 20
    CTEXT           "00", IDC_TAB3_Edit_A0, 33, 28, 13, 10, SS_NOPREFIX |
                    SS_REALSIZEIMAGE | 0x2000, WS_EX_STATICEDGE
    CONTROL         "", IDC_TAB3_Bitmap_A1, "Static", SS_BITMAP | SS_NOTIFY |
                    WS_TABSTOP, 60, 18, 15, 13
    CTEXT           "00", IDC_TAB3_Edit_A1, 83, 28, 13, 10, SS_NOPREFIX |
                    SS_REALSIZEIMAGE | 0x2000, WS_EX_STATICEDGE
    CONTROL         "", IDC_TAB3_Bitmap_A2, "Static", SS_BITMAP | SS_NOTIFY |
                    WS_TABSTOP, 10, 43, 15, 13
    CTEXT           "00", IDC_TAB3_Edit_A2, 33, 53, 13, 10, SS_NOPREFIX |
                    SS_REALSIZEIMAGE | 0x2000, WS_EX_STATICEDGE
    CONTROL         "", IDC_TAB3_Bitmap_A3, "Static", SS_BITMAP | SS_NOTIFY |
                    WS_TABSTOP, 60, 43, 21, 20
    CTEXT           "00", IDC_TAB3_Edit_A3, 83, 53, 13, 10, SS_NOPREFIX |
                    SS_REALSIZEIMAGE | 0x2000, WS_EX_STATICEDGE
    CONTROL         "", IDC_TAB3_Bitmap_A4, "Static", SS_BITMAP | SS_NOTIFY |
                    WS_TABSTOP, 10, 68, 15, 13
    CTEXT           "00", IDC_TAB3_Edit_A4, 33, 78, 13, 10, SS_NOPREFIX |
                    SS_REALSIZEIMAGE | 0x2000, WS_EX_STATICEDGE
    CONTROL         "", IDC_TAB3_Bitmap_A5, "Static", SS_BITMAP | SS_NOTIFY |
                    WS_TABSTOP, 60, 68, 15, 13
    CTEXT           "00", IDC_TAB3_Edit_A5, 83, 78, 13, 10, SS_NOPREFIX |
                    SS_REALSIZEIMAGE | 0x2000, WS_EX_STATICEDGE
    CONTROL         "", IDC_TAB3_Bitmap_A6, "Static", SS_BITMAP | SS_NOTIFY |
                    WS_TABSTOP, 10, 93, 15, 13
    CTEXT           "00", IDC_TAB3_Edit_A6, 33, 103, 13, 10, SS_NOPREFIX |
                    SS_REALSIZEIMAGE | 0x2000, WS_EX_STATICEDGE
    CONTROL         "", IDC_TAB3_Bitmap_A7, "Static", SS_BITMAP | SS_NOTIFY |
                    WS_TABSTOP, 60, 93, 15, 13
    CTEXT           "00", IDC_TAB3_Edit_A7, 83, 103, 13, 10, SS_NOPREFIX |
                    SS_REALSIZEIMAGE | 0x2000, WS_EX_STATICEDGE
    CONTROL         "", IDC_TAB3_Bitmap_A8, "Static", SS_BITMAP | SS_NOTIFY |
                    WS_TABSTOP, 10, 118, 15, 13
    CTEXT           "00", IDC_TAB3_Edit_A8, 33, 128, 13, 10, SS_NOPREFIX |
                    SS_REALSIZEIMAGE | 0x2000, WS_EX_STATICEDGE
    CONTROL         "", IDC_TAB3_Bitmap_A9, "Static", SS_BITMAP | SS_NOTIFY |
                    WS_TABSTOP, 60, 118, 15, 13
    CTEXT           "00", IDC_TAB3_Edit_A9, 83, 128, 13, 10, SS_NOPREFIX |
                    SS_REALSIZEIMAGE | 0x2000, WS_EX_STATICEDGE

```

```

CONTROL    "",IDC_TAB3_Bitmap_B0,"Static",SS_BITMAP | SS_NOTIFY |
WS_TABSTOP,110,17,21,20
CTEXT     "00",IDC_TAB3_Edit_B0,134,27,13,10,SS_NOPREFIX |
SS_REALSIZEIMAGE | 0x2000,WS_EX_STATICEDGE
CONTROL    "",IDC_TAB3_Bitmap_B1,"Static",SS_BITMAP | SS_NOTIFY |
WS_TABSTOP,165,18,15,13
CTEXT     "00",IDC_TAB3_Edit_B1,189,28,13,10,SS_NOPREFIX |
SS_REALSIZEIMAGE | 0x2000,WS_EX_STATICEDGE
CONTROL    "",IDC_TAB3_Bitmap_B2,"Static",SS_BITMAP | SS_NOTIFY |
WS_TABSTOP,110,43,15,13
CTEXT     "00",IDC_TAB3_Edit_B2,134,53,13,10,SS_NOPREFIX |
SS_REALSIZEIMAGE | 0x2000,WS_EX_STATICEDGE
CONTROL    "",IDC_TAB3_Bitmap_B3,"Static",SS_BITMAP | SS_NOTIFY |
WS_TABSTOP,165,43,15,13
CTEXT     "00",IDC_TAB3_Edit_B3,189,53,13,10,SS_NOPREFIX |
SS_REALSIZEIMAGE | 0x2000,WS_EX_STATICEDGE
CONTROL    "",IDC_TAB3_Bitmap_B4,"Static",SS_BITMAP | SS_NOTIFY |
WS_TABSTOP,110,68,15,13
CTEXT     "00",IDC_TAB3_Edit_B4,134,78,13,10,SS_NOPREFIX |
SS_REALSIZEIMAGE | 0x2000,WS_EX_STATICEDGE
CONTROL    "",IDC_TAB3_Bitmap_B5,"Static",SS_BITMAP | SS_NOTIFY |
WS_TABSTOP,165,68,15,13
CTEXT     "00",IDC_TAB3_Edit_B5,189,78,13,10,SS_NOPREFIX |
SS_REALSIZEIMAGE | 0x2000,WS_EX_STATICEDGE
CONTROL    "",IDC_TAB3_Bitmap_B6,"Static",SS_BITMAP | SS_NOTIFY |
WS_TABSTOP,110,93,15,13
CTEXT     "00",IDC_TAB3_Edit_B6,134,103,13,10,SS_NOPREFIX |
SS_REALSIZEIMAGE | 0x2000,WS_EX_STATICEDGE
CONTROL    "",IDC_TAB3_Bitmap_B7,"Static",SS_BITMAP | SS_NOTIFY |
WS_TABSTOP,165,93,15,13
CTEXT     "00",IDC_TAB3_Edit_B7,189,103,13,10,SS_NOPREFIX |
SS_REALSIZEIMAGE | 0x2000,WS_EX_STATICEDGE
CONTROL    "",IDC_TAB3_Bitmap_B8,"Static",SS_BITMAP | SS_NOTIFY |
WS_TABSTOP,110,118,15,13
CTEXT     "00",IDC_TAB3_Edit_B8,134,128,13,10,SS_NOPREFIX |
SS_REALSIZEIMAGE | 0x2000,WS_EX_STATICEDGE
CONTROL    "",IDC_TAB3_Bitmap_B9,"Static",SS_BITMAP | SS_NOTIFY |
WS_TABSTOP,165,118,15,13
CTEXT     "00",IDC_TAB3_Edit_B9,189,128,13,10,SS_NOPREFIX |
SS_REALSIZEIMAGE | 0x2000,WS_EX_STATICEDGE
CONTROL    "",IDC_TAB3_Bitmap_C0,"Static",SS_BITMAP | SS_NOTIFY |
WS_TABSTOP,216,18,21,20
CTEXT     "00",IDC_TAB3_Edit_C0,239,28,13,10,SS_NOPREFIX |
SS_REALSIZEIMAGE | 0x2000,WS_EX_STATICEDGE
CONTROL    "",IDC_TAB3_Bitmap_C1,"Static",SS_BITMAP | SS_NOTIFY |
WS_TABSTOP,265,18,15,13
CTEXT     "00",IDC_TAB3_Edit_C1,289,28,13,10,SS_NOPREFIX |
SS_REALSIZEIMAGE | 0x2000,WS_EX_STATICEDGE
CONTROL    "",IDC_TAB3_Bitmap_C2,"Static",SS_BITMAP | SS_NOTIFY |
WS_TABSTOP,215,43,15,13
CTEXT     "00",IDC_TAB3_Edit_C2,239,53,13,10,SS_NOPREFIX |
SS_REALSIZEIMAGE | 0x2000,WS_EX_STATICEDGE
CONTROL    "",IDC_TAB3_Bitmap_C3,"Static",SS_BITMAP | SS_NOTIFY |
WS_TABSTOP,265,43,15,13
CTEXT     "00",IDC_TAB3_Edit_C3,289,53,13,10,SS_NOPREFIX |
SS_REALSIZEIMAGE | 0x2000,WS_EX_STATICEDGE
CONTROL    "",IDC_TAB3_Bitmap_C4,"Static",SS_BITMAP | SS_NOTIFY |
WS_TABSTOP,215,68,15,13
CTEXT     "00",IDC_TAB3_Edit_C4,239,78,13,10,SS_NOPREFIX |
SS_REALSIZEIMAGE | 0x2000,WS_EX_STATICEDGE
CONTROL    "",IDC_TAB3_Bitmap_C5,"Static",SS_BITMAP | SS_NOTIFY |
WS_TABSTOP,265,68,15,13
CTEXT     "00",IDC_TAB3_Edit_C5,289,78,13,10,SS_NOPREFIX |
SS_REALSIZEIMAGE | 0x2000,WS_EX_STATICEDGE
CONTROL    "",IDC_TAB3_Bitmap_C6,"Static",SS_BITMAP | SS_NOTIFY |
WS_TABSTOP,215,93,15,13
CTEXT     "00",IDC_TAB3_Edit_C6,239,103,13,10,SS_NOPREFIX |
SS_REALSIZEIMAGE | 0x2000,WS_EX_STATICEDGE
CONTROL    "",IDC_TAB3_Bitmap_C7,"Static",SS_BITMAP | SS_NOTIFY |
WS_TABSTOP,265,93,15,13
CTEXT     "00",IDC_TAB3_Edit_C7,289,103,13,10,SS_NOPREFIX |
SS_REALSIZEIMAGE | 0x2000,WS_EX_STATICEDGE
CONTROL    "",IDC_TAB3_Bitmap_C8,"Static",SS_BITMAP | SS_NOTIFY |
WS_TABSTOP,215,118,15,13
CTEXT     "00",IDC_TAB3_Edit_C8,239,128,13,10,SS_NOPREFIX |
SS_REALSIZEIMAGE | 0x2000,WS_EX_STATICEDGE
CONTROL    "",IDC_TAB3_Bitmap_C9,"Static",SS_BITMAP | SS_NOTIFY |
WS_TABSTOP,265,118,15,13
CTEXT     "00",IDC_TAB3_Edit_C9,289,128,13,10,SS_NOPREFIX |

```

```

GROUPBOX      SS_REALSIZEIMAGE | 0x2000,WS_EX_STATICEDGE
               "Properties",IDC_STATIC,5,150,210,70,BS_CENTER,
               WS_EX_TRANSPARENT
CONTROL       " ",IDC_TAB3_Prop_Bitmap,"Static",SS_BITMAP | NOT
               WS_VISIBLE,25,165,21,20
CONTROL       "Slider1",IDC_TAB3_Track,"msctls_trackbar32",
               TBS_AUTOTICKS | TBS_TOP | NOT WS_VISIBLE | WS_TABSTOP,65,
               165,145,20
EDITTEXT     IDC_TAB3_Prop_Edit,10,195,50,20,ES_CENTER | ES_MULTILINE |
               ES_READONLY | NOT WS_VISIBLE | NOT WS_BORDER | NOT
               WS_TABSTOP
EDITTEXT     IDC_TAB3_Prop_Effect,65,195,145,20,ES_CENTER |
               ES_MULTILINE | ES_READONLY | NOT WS_VISIBLE | NOT
               WS_BORDER | NOT WS_TABSTOP
GROUPBOX     "Available Skill Points",IDC_STATIC,220,185,85,35,
               BS_CENTER,WS_EX_TRANSPARENT
EDITTEXT     IDC_TAB3_Bonus,230,199,45,12,ES_CENTER | ES_AUTOHSCROLL |
               ES_NUMBER
CONTROL      22000,IDC_TAB3_BonusPlus,"Static",SS_BITMAP | SS_NOTIFY,
               280,197,17,16
PUSHBUTTON   "Batch Action",IDC_TAB3_Batch,225,155,75,20

```

END

IDD_TAB0 DIALOG DISCARDABLE 0, 0, 310, 226

STYLE WS_CHILD

FONT 8, "MS Sans Serif"

BEGIN

```

CONTROL      " ",IDC_TAB0_BmpJamella,"Static",SS_BITMAP | SS_NOTIFY |
               SS_REALSIZEIMAGE,5,20,304,185
CTEXT       "Version",IDC_TAB0_Version,5,210,300,8,SS_NOTIFY

```

END

IDD_TAB1 DIALOGEX 0, 0, 310, 226

STYLE WS_CHILD

FONT 8, "MS Sans Serif", 0, 0, 0x1

BEGIN

```

GROUPBOX     "Name",IDC_STATIC,4,6,181,25,BS_CENTER,WS_EX_TRANSPARENT
CTEXT       "Name",IDC_TAB1_Name,10,18,130,10,SS_NOPREFIX |
               SS_REALSIZEIMAGE,WS_EX_STATICEDGE
GROUPBOX     "Class",IDC_STATIC,190,6,115,25,BS_CENTER,
               WS_EX_TRANSPARENT
COMBOBOX     IDC_TAB1_Class,194,16,107,69,CBS_DROPDOWNLIST | WS_GROUP |
               WS_TABSTOP
GROUPBOX     "Level",IDC_STATIC,4,36,50,25,BS_CENTER,
               WS_EX_TRANSPARENT
EDITTEXT     IDC_TAB1_Level,9,46,39,12,ES_CENTER | ES_NUMBER |
               WS_GROUP
GROUPBOX     "Experience",IDC_STATIC,58,36,112,25,BS_CENTER,
               WS_EX_TRANSPARENT
EDITTEXT     IDC_TAB1_Experience,63,46,101,12,ES_CENTER | ES_NUMBER |
               WS_GROUP
GROUPBOX     "Characteristics",IDC_STATIC,5,65,130,138,BS_CENTER,
               WS_EX_TRANSPARENT
LTEXT       "Strength",IDC_STATIC,10,83,28,8
EDITTEXT     IDC_TAB1_Char1,64,81,40,12,ES_CENTER | ES_AUTOHSCROLL |
               ES_NUMBER | WS_GROUP
CONTROL      22000,IDC_TAB1_Plus1,"Static",SS_BITMAP | SS_NOTIFY |
               WS_TABSTOP,110,79,17,16
LTEXT       "Dexterity",IDC_STATIC,10,105,28,8
EDITTEXT     IDC_TAB1_Char2,64,103,40,12,ES_CENTER | ES_AUTOHSCROLL |
               ES_NUMBER | WS_GROUP
CONTROL      22000,IDC_TAB1_Plus2,"Static",SS_BITMAP | SS_NOTIFY |
               WS_TABSTOP,110,101,17,16
LTEXT       "Vitality",IDC_STATIC,10,127,21,8
EDITTEXT     IDC_TAB1_Char3,64,125,40,12,ES_CENTER | ES_AUTOHSCROLL |
               ES_NUMBER | WS_GROUP
CONTROL      22000,IDC_TAB1_Plus3,"Static",SS_BITMAP | SS_NOTIFY |
               WS_TABSTOP,110,123,17,16
LTEXT       "Energy",IDC_STATIC,10,149,23,8
EDITTEXT     IDC_TAB1_Char4,64,147,40,12,ES_CENTER | ES_AUTOHSCROLL |
               ES_NUMBER | WS_GROUP
CONTROL      22000,IDC_TAB1_Plus4,"Static",SS_BITMAP | SS_NOTIFY |
               WS_TABSTOP,110,145,17,16
LTEXT       "Available Points",IDC_STATIC,10,171,51,8
EDITTEXT     IDC_TAB1_Char5,64,169,40,12,ES_CENTER | ES_AUTOHSCROLL |
               ES_NUMBER | WS_GROUP
CONTROL      22000,IDC_TAB1_Plus5,"Static",SS_BITMAP | SS_NOTIFY |
               WS_TABSTOP,110,167,17,16
GROUPBOX     "Character Type",IDC_STATIC,140,65,95,26,BS_CENTER,

```



```

WS_EX_TRANSPARENT
CONTROL "Hardcore", IDC_TAB1_Hardcore, "Button", BS_AUTOCHECKBOX |
BS_NOTIFY | WS_GROUP | WS_TABSTOP, 145, 75, 45, 10
CONTROL "Dead", IDC_TAB1_Dead, "Button", BS_AUTOCHECKBOX |
BS_NOTIFY | WS_TABSTOP, 195, 75, 33, 10
GROUPBOX "Constitution", IDC_STATIC, 140, 96, 165, 70, BS_CENTER,
WS_EX_TRANSPARENT
LTEXT "Health", IDC_STATIC, 145, 110, 22, 8
EDITTEXT IDC_TAB1_Health, 205, 108, 35, 12, ES_CENTER | ES_AUTOHSCROLL |
ES_NUMBER | WS_GROUP
CTEXT "/", IDC_STATIC, 248, 110, 8, 8
EDITTEXT IDC_TAB1_HealthMax, 264, 108, 35, 12, ES_CENTER |
ES_AUTOHSCROLL | ES_NUMBER
LTEXT "Stamina", IDC_STATIC, 145, 130, 26, 8
EDITTEXT IDC_TAB1_Stamina, 205, 128, 35, 12, ES_CENTER |
ES_AUTOHSCROLL | ES_NUMBER | WS_GROUP
CTEXT "/", IDC_STATIC, 248, 130, 8, 8
EDITTEXT IDC_TAB1_StaminaMax, 264, 128, 35, 12, ES_CENTER |
ES_AUTOHSCROLL | ES_NUMBER
LTEXT "Mana", IDC_STATIC, 145, 150, 19, 8
EDITTEXT IDC_TAB1_Mana, 205, 148, 35, 12, ES_CENTER | ES_AUTOHSCROLL |
ES_NUMBER | WS_GROUP
CTEXT "/", IDC_STATIC, 248, 150, 8, 8
EDITTEXT IDC_TAB1_ManaMax, 264, 148, 35, 12, ES_CENTER |
ES_AUTOHSCROLL | ES_NUMBER
GROUPBOX "Gold", IDC_STATIC, 140, 171, 165, 49, BS_CENTER,
WS_EX_TRANSPARENT
LTEXT "Person", IDC_STATIC, 145, 184, 23, 8
EDITTEXT IDC_TAB1_GoldPerson, 180, 182, 35, 12, ES_AUTOHSCROLL |
ES_NUMBER | WS_GROUP
LTEXT "Stash", IDC_STATIC, 145, 204, 19, 8
EDITTEXT IDC_TAB1_GoldStash, 180, 202, 35, 12, ES_AUTOHSCROLL |
ES_NUMBER | WS_GROUP
LTEXT "/", IDC_TAB1_MaxGoldPerson, 226, 184, 40, 8
LTEXT "/ ", IDC_TAB1_MaxGoldStash, 226, 204, 40, 8
PUSHBUTTON "Max", IDC_TAB1_SetMaxGoldPerson, 275, 182, 20, 12
PUSHBUTTON "Max", IDC_TAB1_SetMaxGoldStash, 275, 202, 20, 12
GROUPBOX "Starting Town", IDC_STATIC, 174, 36, 131, 25, BS_CENTER,
WS_EX_TRANSPARENT
COMBOBOX IDC_TAB1_StartTown, 180, 46, 119, 119, CBS_DROPDOWNLIST |
WS_VSCROLL | WS_TABSTOP
GROUPBOX "Max Difficulty", IDC_STATIC, 240, 65, 65, 26, BS_CENTER,
WS_EX_TRANSPARENT
COMBOBOX IDC_TAB1_Difficulty, 244, 75, 57, 55, CBS_DROPDOWNLIST |
WS_VSCROLL | WS_TABSTOP
PUSHBUTTON "Batch Action", IDC_TAB1_Batch, 45, 208, 50, 12
CONTROL "Link Stats to Constitution", IDC_TAB1_StatsLink, "Button",
BS_AUTOCHECKBOX | WS_TABSTOP, 23, 188, 94, 10
PUSHBUTTON "Rename", IDC_TAB1_Rename, 145, 16, 35, 13
END

```

```
IDD_TAB2_DIALOGEX 0, 0, 456, 335
```

```
STYLE WS_CHILD
```

```
FONT 8, "MS Sans Serif"
```

```
BEGIN
```

```

GROUPBOX "Inventory", IDC_STATIC, 6, 3, 220, 238, BS_CENTER,
WS_EX_TRANSPARENT
GROUPBOX "Selected Item", IDC_STATIC, 230, 3, 220, 123, BS_CENTER,
WS_EX_TRANSPARENT
GROUPBOX "Horadric Cube", IDC_STATIC, 6, 243, 63, 86, BS_CENTER,
WS_EX_TRANSPARENT
GROUPBOX "Belt", IDC_STATIC, 72, 243, 85, 86, BS_CENTER,
WS_EX_TRANSPARENT
GROUPBOX "Stash", IDC_STATIC, 160, 243, 122, 86, BS_CENTER,
WS_EX_TRANSPARENT
CONTROL "ItemTree", IDC_TAB2_ItemTree, "SysTreeView32",
TVS_HASBUTTONS | TVS_HASLINES | TVS_LINESATROOT |
TVS_NOTOOLTIPS | TVS_FULLROWSELECT | WS_TABSTOP, 288, 139,
160, 185, WS_EX_STATICEDGE
CONTROL 264, IDC_TAB2_Body, "Static", SS_BITMAP | SS_REALSIZEIMAGE,
9, 12, 213, 152
CONTROL 262, IDC_TAB2_Inv, "Static", SS_BITMAP | SS_REALSIZEIMAGE,
20, 166, 194, 72
CONTROL 261, IDC_TAB2_Cube, "Static", SS_BITMAP | SS_REALSIZEIMAGE,
8, 252, 59, 72
CONTROL 263, IDC_TAB2_Belt, "Static", SS_BITMAP | SS_REALSIZEIMAGE,
76, 252, 78, 72
CONTROL 260, IDC_TAB2_Stash, "Static", SS_BITMAP | SS_REALSIZEIMAGE,
163, 252, 117, 72

```

```

CONTROL      "Expert Toolbox",IDC_TAB2_ExpertMode,"Button",
BS_AUTOCHECKBOX | WS_TABSTOP,380,112,63,10
PUSHBUTTON   "Save Item",IDC_TAB2_Save,230,130,51,12
PUSHBUTTON   "Load Item",IDC_TAB2_Load,230,142,51,12,BS_CENTER |
BS_VCENTER
CONTROL      287,IDC_TAB2_CopyBuffer,"Static",SS_BITMAP |
SS_REALSIZEIMAGE,235,166,39,72
GROUPBOX     "Built-In Item Tree (Drag into Inventory)",IDC_STATIC,
285,130,165,199,BS_CENTER,WS_EX_TRANSPARENT
GROUPBOX     "Copy Buffer",IDC_STATIC,230,156,52,85,BS_CENTER,
WS_EX_TRANSPARENT
PUSHBUTTON   "Randomize",IDC_TAB2_AttrRandom,235,110,50,12,
WS_DISABLED
CONTROL      "",IDC_TAB2_RichText,"RICHEDIT",ES_CENTER | ES_MULTILINE |
ES_AUTOVSCROLL | ES_READONLY | ES_NUMBER | WS_VSCROLL |
WS_TABSTOP,235,12,207,96,WS_EX_STATICEDGE
PUSHBUTTON   "Batch Action",IDC_TAB2_Batch,320,110,50,12
PUSHBUTTON   "<",IDC_TAB2_HistoryBack,290,110,10,12,WS_DISABLED
PUSHBUTTON   ">",IDC_TAB2_HistoryNext,300,110,10,12,WS_DISABLED
END

```

```
IDD_TAB4_DIALOGEX 0, 0, 310, 226
```

```
STYLE WS_CHILD
```

```
FONT 8, "MS Sans Serif", 0, 0, 0x1
```

```
BEGIN
```

```

CONTROL      "Normal",IDC_TAB4_Diff1,"Button",BS_AUTORADIOBUTTON |
WS_GROUP | WS_TABSTOP,10,16,38,10
CONTROL      "Nightmare",IDC_TAB4_Diff2,"Button",BS_AUTORADIOBUTTON |
WS_TABSTOP,10,33,48,10
CONTROL      "Hell",IDC_TAB4_Diff3,"Button",BS_AUTORADIOBUTTON |
WS_TABSTOP,10,50,28,10
GROUPBOX     "Act Activation && Selection",IDC_STATIC,70,5,110,60,
BS_CENTER | WS_GROUP,WS_EX_TRANSPARENT
GROUPBOX     "Difficulty",IDC_STATIC,4,5,61,60,BS_CENTER,
WS_EX_TRANSPARENT
GROUPBOX     "Change all",IDC_STATIC,184,5,121,45,BS_CENTER,
WS_EX_TRANSPARENT
CONTROL      "Act I",IDC_TAB4_Act1,"Button",BS_AUTORADIOBUTTON |
WS_GROUP | WS_TABSTOP,78,15,31,10
CONTROL      "Act II",IDC_TAB4_Act2,"Button",BS_AUTORADIOBUTTON |
WS_TABSTOP,78,27,33,10
CONTROL      "Act III",IDC_TAB4_Act3,"Button",BS_AUTORADIOBUTTON |
WS_TABSTOP,78,39,35,10
CONTROL      "Act IV",IDC_TAB4_Act4,"Button",BS_AUTORADIOBUTTON |
WS_TABSTOP,78,51,35,10
COMBOBOX     IDC_TAB4_SelAll,190,23,65,60,CBS_DROPDOWNLIST |
WS_VSCROLL | WS_TABSTOP
PUSHBUTTON   "in this Act",IDC_TAB4_SetAll1,260,15,40,13
GROUPBOX     "Quests",IDC_STATIC,4,65,301,155,BS_CENTER | WS_GROUP,
WS_EX_TRANSPARENT
CONTROL      "",IDC_TAB4_Bmp1,"Static",SS_BITMAP | SS_NOTIFY,40,89,31,
31
CTEXT        "Quest",IDC_TAB4_Text1,10,77,90,8
COMBOBOX     IDC_TAB4_Sel1,15,125,80,65,CBS_DROPDOWNLIST |
CBS_AUTOHSCROLL | CBS_DISABLENOSCROLL | WS_TABSTOP
CONTROL      "",IDC_STATIC,"Static",SS_ETCHEDHORZ,10,144,290,1
CONTROL      "",IDC_STATIC,"Static",SS_ETCHEDVERT,104,75,1,65
CONTROL      "",IDC_STATIC,"Static",SS_ETCHEDVERT,205,75,1,64
CONTROL      "",IDC_STATIC,"Static",SS_ETCHEDVERT,104,150,1,64
CONTROL      "",IDC_STATIC,"Static",SS_ETCHEDVERT,205,150,1,63
COMBOBOX     IDC_TAB4_Sel2,115,125,80,65,CBS_DROPDOWNLIST |
WS_VSCROLL | WS_TABSTOP
COMBOBOX     IDC_TAB4_Sel3,215,125,80,65,CBS_DROPDOWNLIST |
WS_VSCROLL | WS_TABSTOP
CONTROL      "",IDC_TAB4_Bmp2,"Static",SS_BITMAP | SS_NOTIFY,140,89,
31,31
CTEXT        "Quest",IDC_TAB4_Text2,110,77,90,8
CONTROL      "",IDC_TAB4_Bmp3,"Static",SS_BITMAP | SS_NOTIFY,239,89,
31,31
CTEXT        "Quest",IDC_TAB4_Text3,210,77,90,8
CONTROL      "",IDC_TAB4_Bmp4,"Static",SS_BITMAP | SS_NOTIFY,40,162,
15,13
CTEXT        "Quest",IDC_TAB4_Text4,10,150,90,8
COMBOBOX     IDC_TAB4_Sel4,15,200,80,65,CBS_DROPDOWNLIST | WS_VSCROLL |
WS_TABSTOP
COMBOBOX     IDC_TAB4_Sel5,115,200,80,65,CBS_DROPDOWNLIST |
WS_VSCROLL | WS_TABSTOP
COMBOBOX     IDC_TAB4_Sel6,215,200,80,65,CBS_DROPDOWNLIST |
WS_VSCROLL | WS_TABSTOP

```

```

CONTROL      "",IDC_TAB4_Bmp5,"Static",SS_BITMAP | SS_NOTIFY,139,162,
15,13
CTEXT       "Quest",IDC_TAB4_Text5,110,150,90,8
CONTROL      "",IDC_TAB4_Bmp6,"Static",SS_BITMAP | SS_NOTIFY,239,162,
31,31
CTEXT       "Quest",IDC_TAB4_Text6,210,150,90,8
PUSHBUTTON  "in all Acts",IDC_TAB4_SetAll12,260,32,39,13
CONTROL      "Enabled",IDC_TAB4_Act2_On,"Button",BS_AUTOCHECKBOX |
WS_TABSTOP,130,27,45,10
CONTROL      "Enabled",IDC_TAB4_Act3_On,"Button",BS_AUTOCHECKBOX |
WS_TABSTOP,130,39,45,10
CONTROL      "Finished",IDC_TAB4_Act4_On,"Button",BS_AUTOCHECKBOX |
WS_TABSTOP,130,51,45,10
PUSHBUTTON  "Info about Secret Cow Level",IDC_TAB4_CowLevel,184,53,
121,13
END

```

```

IDD_TAB5_DIALOGEX 0, 0, 310, 226
STYLE WS_CHILD
FONT 8, "MS Sans Serif", 0, 0, 0x1
BEGIN

```

```

CONTROL      "Normal",IDC_TAB5_Diff1,"Button",BS_AUTORADIOBUTTON |
WS_GROUP | WS_TABSTOP,10,16,38,10
CONTROL      "Nightmare",IDC_TAB5_Diff2,"Button",BS_AUTORADIOBUTTON |
WS_TABSTOP,67,16,48,10
CONTROL      "Hell",IDC_TAB5_Diff3,"Button",BS_AUTORADIOBUTTON |
WS_TABSTOP,134,16,28,10
PUSHBUTTON  "Batch Action",IDC_TAB5_Batch,190,10,111,20,WS_GROUP
GROUPBOX    "Act I",IDC_STATIC,4,36,71,184,BS_CENTER,
WS_EX_TRANSPARENT
CONTROL      "",IDC_TAB5_Way01,"Static",SS_BITMAP | SS_NOTIFY |
WS_GROUP | WS_TABSTOP,8,51,13,12
LTEXT       "Rogue Encampment",IDC_STATIC,25,49,45,17,NOT WS_GROUP
CONTROL      "",IDC_TAB5_Way02,"Static",SS_BITMAP | SS_NOTIFY |
WS_TABSTOP,8,69,13,12
LTEXT       "Cold Plains",IDC_STATIC,25,71,45,8,NOT WS_GROUP
CONTROL      "",IDC_TAB5_Way03,"Static",SS_BITMAP | SS_NOTIFY |
WS_TABSTOP,8,87,13,12
LTEXT       "Stony Field",IDC_STATIC,25,89,45,8,NOT WS_GROUP
CONTROL      "",IDC_TAB5_Way04,"Static",SS_BITMAP | SS_NOTIFY |
WS_TABSTOP,8,105,13,12
LTEXT       "Dark Wood",IDC_STATIC,25,107,45,8,NOT WS_GROUP
CONTROL      "",IDC_TAB5_Way05,"Static",SS_BITMAP | SS_NOTIFY |
WS_TABSTOP,8,123,13,12
LTEXT       "Black Marsh",IDC_STATIC,25,125,45,8,NOT WS_GROUP
CONTROL      "",IDC_TAB5_Way06,"Static",SS_BITMAP | SS_NOTIFY |
WS_TABSTOP,8,141,13,12
LTEXT       "Outer Cloister",IDC_STATIC,25,143,45,8,NOT WS_GROUP
CONTROL      "",IDC_TAB5_Way07,"Static",SS_BITMAP | SS_NOTIFY |
WS_TABSTOP,8,159,13,12
LTEXT       "Jail Level 1",IDC_STATIC,25,161,45,8,NOT WS_GROUP
CONTROL      "",IDC_TAB5_Way08,"Static",SS_BITMAP | SS_NOTIFY |
WS_TABSTOP,8,177,13,12
LTEXT       "Inner Cloister",IDC_STATIC,25,179,45,8,NOT WS_GROUP
CONTROL      "",IDC_TAB5_Way09,"Static",SS_BITMAP | SS_NOTIFY |
WS_TABSTOP,8,195,13,12
LTEXT       "Catacombs Level 2",IDC_STATIC,25,194,45,16,NOT WS_GROUP
GROUPBOX    "Act II",IDC_STATIC,79,36,72,184,BS_CENTER,
WS_EX_TRANSPARENT
CONTROL      "",IDC_TAB5_Way11,"Static",SS_BITMAP | SS_NOTIFY |
WS_TABSTOP,82,51,13,12
LTEXT       "Lut Gholein",IDC_STATIC,100,53,45,8,NOT WS_GROUP
CONTROL      "",IDC_TAB5_Way12,"Static",SS_BITMAP | SS_NOTIFY |
WS_TABSTOP,82,68,13,12
LTEXT       "Sewers Level 2",IDC_STATIC,100,67,45,16,NOT WS_GROUP
CONTROL      "",IDC_TAB5_Way13,"Static",SS_BITMAP | SS_NOTIFY |
WS_TABSTOP,82,87,13,12
LTEXT       "Dry Hills",IDC_STATIC,100,89,45,8,NOT WS_GROUP
CONTROL      "",IDC_TAB5_Way14,"Static",SS_BITMAP | SS_NOTIFY |
WS_TABSTOP,82,105,13,12
LTEXT       "Halls of the Dead Level 2",IDC_STATIC,100,104,45,16,NOT
WS_GROUP
CONTROL      "",IDC_TAB5_Way15,"Static",SS_BITMAP | SS_NOTIFY |
WS_TABSTOP,82,123,13,12
LTEXT       "Far Oasis",IDC_STATIC,100,125,45,8,NOT WS_GROUP
CONTROL      "",IDC_TAB5_Way16,"Static",SS_BITMAP | SS_NOTIFY |
WS_TABSTOP,82,140,13,12
LTEXT       "Lost City",IDC_STATIC,100,142,45,8,NOT WS_GROUP
CONTROL      "",IDC_TAB5_Way17,"Static",SS_BITMAP | SS_NOTIFY |

```

```

WS_TABSTOP,82,159,13,12
LTEXT "Palace Celler Level 1",IDC_STATIC,100,158,45,16,NOT
WS_GROUP
CONTROL "",IDC_TAB5_Way18,"Static",SS_BITMAP | SS_NOTIFY |
WS_TABSTOP,82,177,13,12
LTEXT "Arcane Sanctuary",IDC_STATIC,100,176,45,16,NOT WS_GROUP
CONTROL "",IDC_TAB5_Way19,"Static",SS_BITMAP | SS_NOTIFY |
WS_TABSTOP,82,195,13,12
LTEXT "Canyon of the Magi",IDC_STATIC,100,194,45,16,NOT
WS_GROUP
GROUPBOX "Act III",IDC_STATIC,154,36,71,184,BS_CENTER,
WS_EX_TRANSPARENT
CONTROL "",IDC_TAB5_Way21,"Static",SS_BITMAP | SS_NOTIFY |
WS_TABSTOP,157,51,13,12
LTEXT "Kurast Docks",IDC_STATIC,175,54,45,8,NOT WS_GROUP
CONTROL "",IDC_TAB5_Way22,"Static",SS_BITMAP | SS_NOTIFY |
WS_TABSTOP,157,69,13,12
LTEXT "Spider Forest",IDC_STATIC,174,71,45,8,NOT WS_GROUP
CONTROL "",IDC_TAB5_Way23,"Static",SS_BITMAP | SS_NOTIFY |
WS_TABSTOP,157,87,13,12
LTEXT "Great Marsh",IDC_STATIC,174,89,45,8,NOT WS_GROUP
CONTROL "",IDC_TAB5_Way24,"Static",SS_BITMAP | SS_NOTIFY |
WS_TABSTOP,157,105,13,12
LTEXT "Flayer Jungle",IDC_STATIC,174,107,45,8,NOT WS_GROUP
CONTROL "",IDC_TAB5_Way25,"Static",SS_BITMAP | SS_NOTIFY |
WS_TABSTOP,157,123,13,12
LTEXT "Lower Kurast",IDC_STATIC,174,125,45,8,NOT WS_GROUP
CONTROL "",IDC_TAB5_Way26,"Static",SS_BITMAP | SS_NOTIFY |
WS_TABSTOP,157,141,13,12
LTEXT "Kurast Bazaar",IDC_STATIC,174,143,45,8,NOT WS_GROUP
CONTROL "",IDC_TAB5_Way27,"Static",SS_BITMAP | SS_NOTIFY |
WS_TABSTOP,157,159,13,12
LTEXT "Upper Kurast",IDC_STATIC,174,161,45,8,NOT WS_GROUP
CONTROL "",IDC_TAB5_Way28,"Static",SS_BITMAP | SS_NOTIFY |
WS_TABSTOP,157,177,13,12
LTEXT "Travincal",IDC_STATIC,174,179,45,8,NOT WS_GROUP
CONTROL "",IDC_TAB5_Way29,"Static",SS_BITMAP | SS_NOTIFY |
WS_TABSTOP,157,195,13,12
LTEXT "Durance of Hate Level 2",IDC_STATIC,174,194,45,15,NOT
WS_GROUP
GROUPBOX "Act IV",IDC_STATIC,230,36,75,184,BS_CENTER,
WS_EX_TRANSPARENT
CONTROL "",IDC_TAB5_Way31,"Static",SS_BITMAP | SS_NOTIFY |
WS_TABSTOP,232,51,13,12
LTEXT "Pandemonium Fortress",IDC_STATIC,249,49,51,17,NOT
WS_GROUP
CONTROL "",IDC_TAB5_Way32,"Static",SS_BITMAP | SS_NOTIFY |
WS_TABSTOP,232,69,13,12
LTEXT "City of the Damned",IDC_STATIC,250,68,45,16,NOT
WS_GROUP
CONTROL "",IDC_TAB5_Way33,"Static",SS_BITMAP | SS_NOTIFY |
WS_TABSTOP,232,87,13,12
LTEXT "River of Flame",IDC_STATIC,249,89,45,8,NOT WS_GROUP
GROUPBOX "Difficulty",IDC_STATIC,4,6,177,24,BS_CENTER,
WS_EX_TRANSPARENT
END

IDD_COWLEVEL_DIALOG DISCARDABLE 0, 0, 442, 266
STYLE DS_MODALFRAME | DS_CENTER | WS_POPUP | WS_VISIBLE | WS_CAPTION |
WS_SYSMENU
CAPTION "The Secret Cow Level"
FONT 8, "MS Sans Serif"
BEGIN
  DEFPUSHBUTTON "OK",IDOK,189,245,65,14
  CONTROL 247,IDC_STATIC,"Static",SS_BITMAP,150,5,143,202
  CONTROL 248,IDC_STATIC,"Static",SS_BITMAP,304,5,133,110
  CTEXT "You need to get Wirt's Leg from his corpse located in the northwest area of Tristam.",
  IDC_COWLEVEL_TextA,5,120,134,17
  CTEXT "Back in the Rogues' Camp place Wirt's Leg together with a Tomb of Town Portal from Akara into the H
oradric Cube and trasmute.",
  IDC_COWLEVEL_TextB,150,213,142,27
  CONTROL 250,IDC_STATIC,"Static",SS_BITMAP,5,5,133,110
  CONTROL "",IDC_STATIC,"Static",SS_ETCHEDVERT,144,5,1,230
  CONTROL "",IDC_STATIC,"Static",SS_ETCHEDVERT,298,5,1,230
  CTEXT "A secret Red Portal will appear at your location. Enter it and be prepared to face the most horribl
e evil man can think of: COWS.",
  IDC_COWLEVEL_TextB2,304,120,134,33
  CTEXT "If you have previously killed the Cow King in the same difficulty level, you cannot reenter the Cow
Level.\nThis flag is stored in the Quest "Search for Cain". Reset this quest and you can kill the Cow King again.",

```

IDC_STATIC,305,187,135,48

END

IDD_PROGRESS_DIALOG DISCARDABLE 0, 0, 310, 225

STYLE WS_CHILD

FONT 8, "MS Sans Serif"

BEGIN

CONTROL "Progress", IDC_PROGRESS_Bar, "msctls_progress32",
PBS_SMOOTH,17,121,275,12

CTEXT "Static", IDC_PROGRESS_Text, 67,91,170,15

END

IDD_INFO_DIALOGEX 0, 0, 257, 143

STYLE DS_MODALFRAME | DS_CENTER | WS_POPUP | WS_CAPTION | WS_SYSMENU

CAPTION "Jamella's Diablo 2 Hero Editor"

FONT 8, "MS Sans Serif"

BEGIN

CONTROL 286, IDC_STATIC, "Static", SS_BITMAP, 5,5,77,107

CTEXT "Program\nVersion", IDC_INFO_Program, 90,5,160,18,0,
WS_EX_STATICEDGECTEXT "Compile Date\nVersion Code", IDC_INFO_Date, 90,28,160,18,
0, WS_EX_STATICEDGE

LTEXT "URL", IDC_STATIC, 90,53,16,8

EDITTEXT IDC_INFO_URL, 90,61,143,12, ES_CENTER | ES_AUTOHSCROLL |
ES_READONLY | NOT WS_BORDER

PUSHBUTTON "Button1", IDC_INFO_LINK, 234,59,16,15, BS_BITMAP

LTEXT "Email", IDC_STATIC, 90,74,18,8

EDITTEXT IDC_INFO_Email, 90,81,160,12, ES_CENTER | ES_AUTOHSCROLL |
ES_READONLY | NOT WS_BORDERLTEXT "When sending bug reports, please specify the version code above.",
IDC_STATIC, 90,100,160,16

DEFPUSHBUTTON "OK", IDOK, 142,125,50,14

END

IDD_TAB2E_DIALOGEX 0, 0, 160, 270

STYLE DS_CENTER | WS_POPUP | WS_CAPTION | WS_SYSMENU

EXSTYLE WS_EX_TOOLWINDOW

CAPTION "Expert Item Codes"

FONT 8, "MS Sans Serif"

BEGIN

PUSHBUTTON "Find Info", IDC_TAB2E_FindInfo, 115,227,40,10

EDITTEXT IDC_TAB2E_Raw00, 28,41,15,12, ES_CENTER | ES_AUTOHSCROLL

CTEXT "Raw Data", IDC_STATIC, 5,28,150,8

EDITTEXT IDC_TAB2E_GemNum, 95,212,59,12, ES_AUTOHSCROLL

EDITTEXT IDC_TAB2E_ItemCode, 95,108,60,12, ES_AUTOHSCROLL

EDITTEXT IDC_TAB2E_Xoord, 95,147,30,12, ES_AUTOHSCROLL |
ES_READONLYEDITTEXT IDC_TAB2E_Yoord, 125,147,29,12, ES_AUTOHSCROLL |
ES_READONLY

EDITTEXT IDC_TAB2E_DWA, 95,173,59,12, ES_AUTOHSCROLL

EDITTEXT IDC_TAB2E_DWB, 95,186,60,13, ES_AUTOHSCROLL

RADIOBUTTON "DWORD A", IDC_TAB2E_RandA, 98,246,51,10, BS_NOTIFY |
WS_GROUP | WS_TABSTOPRADIOBUTTON "DWORD B", IDC_TAB2E_RandB, 98,257,51,10, BS_NOTIFY |
WS_GROUP | WS_TABSTOP

CONTROL "", IDC_STATIC, "Static", SS_ETCHEDHORZ, 2,100,157,1

LTEXT "Socketed Gems", IDC_STATIC, 5,214,60,8

LTEXT "Item Code", IDC_STATIC, 5,110,60,8

LTEXT "X && Y Coordinates", IDC_STATIC, 5,149,60,8

LTEXT "Set && Unique Class", IDC_STATIC, 5,123,60,8

LTEXT "DWA", IDC_STATIC, 5,175,60,8

LTEXT "DWB", IDC_STATIC, 5,188,60,8

LTEXT "Display output of Diablo 2 Random Generator for",
IDC_STATIC, 5,248,85,16

CONTROL "", IDC_STATIC, "Static", SS_ETCHEDHORZ, 3,240,155,1

CONTROL "", IDC_STATIC, "Static", SS_ETCHEDHORZ, 2,22,157,1

LTEXT "Item Record ID", IDC_STATIC, 5,7,60,8

EDITTEXT IDC_TAB2E_Raw01, 44,41,15,12, ES_CENTER | ES_AUTOHSCROLL

EDITTEXT IDC_TAB2E_Raw02, 60,41,15,12, ES_CENTER | ES_AUTOHSCROLL

EDITTEXT IDC_TAB2E_Raw03, 76,41,15,12, ES_CENTER | ES_AUTOHSCROLL

EDITTEXT IDC_TAB2E_Raw04, 92,41,15,12, ES_CENTER | ES_AUTOHSCROLL

EDITTEXT IDC_TAB2E_Raw05, 108,41,15,12, ES_CENTER | ES_AUTOHSCROLL

EDITTEXT IDC_TAB2E_Raw06, 123,41,15,12, ES_CENTER | ES_AUTOHSCROLL

EDITTEXT IDC_TAB2E_Raw07, 139,41,15,12, ES_CENTER | ES_AUTOHSCROLL

EDITTEXT IDC_TAB2E_Raw08, 28,54,15,12, ES_CENTER | ES_AUTOHSCROLL

EDITTEXT IDC_TAB2E_Raw09, 44,54,15,12, ES_CENTER | ES_AUTOHSCROLL

EDITTEXT IDC_TAB2E_Raw0A, 60,54,15,12, ES_CENTER | ES_AUTOHSCROLL

EDITTEXT IDC_TAB2E_Raw0B, 76,54,15,12, ES_CENTER | ES_AUTOHSCROLL

EDITTEXT IDC_TAB2E_Raw0C, 92,54,15,12, ES_CENTER | ES_AUTOHSCROLL

```

EDITTEXT IDC_TAB2E_Raw0D,108,54,15,12,ES_CENTER | ES_AUTOHSCROLL
EDITTEXT IDC_TAB2E_Raw0E,123,54,15,12,ES_CENTER | ES_AUTOHSCROLL
EDITTEXT IDC_TAB2E_Raw0F,139,54,15,12,ES_CENTER | ES_AUTOHSCROLL
EDITTEXT IDC_TAB2E_Raw10,28,67,15,12,ES_CENTER | ES_AUTOHSCROLL
EDITTEXT IDC_TAB2E_Raw11,44,67,15,12,ES_CENTER | ES_AUTOHSCROLL
EDITTEXT IDC_TAB2E_Raw12,60,67,15,12,ES_CENTER | ES_AUTOHSCROLL
EDITTEXT IDC_TAB2E_Raw13,76,67,15,12,ES_CENTER | ES_AUTOHSCROLL
EDITTEXT IDC_TAB2E_Raw14,92,67,15,12,ES_CENTER | ES_AUTOHSCROLL
EDITTEXT IDC_TAB2E_Raw15,108,67,15,12,ES_CENTER | ES_AUTOHSCROLL
EDITTEXT IDC_TAB2E_Raw16,123,67,15,12,ES_CENTER | ES_AUTOHSCROLL
EDITTEXT IDC_TAB2E_Raw17,139,67,15,12,ES_CENTER | ES_AUTOHSCROLL
EDITTEXT IDC_TAB2E_Raw18,28,80,15,12,ES_CENTER | ES_AUTOHSCROLL
EDITTEXT IDC_TAB2E_Raw19,44,80,15,12,ES_CENTER | ES_AUTOHSCROLL
EDITTEXT IDC_TAB2E_Raw1A,60,80,15,12,ES_CENTER | ES_AUTOHSCROLL
EDITTEXT IDC_TAB2E_Raw1B,76,80,15,12,ES_CENTER | ES_AUTOHSCROLL
EDITTEXT IDC_TAB2E_Raw1C,92,80,15,12,ES_CENTER | ES_AUTOHSCROLL
EDITTEXT IDC_TAB2E_Raw1D,108,80,15,12,ES_CENTER | ES_AUTOHSCROLL
EDITTEXT IDC_TAB2E_Raw1E,123,80,15,12,ES_CENTER | ES_AUTOHSCROLL
EDITTEXT IDC_TAB2E_Raw1F,139,80,15,12,ES_CENTER | ES_AUTOHSCROLL
CTEXT "0x00",IDC_STATIC,5,43,20,8
CTEXT "0x08",IDC_STATIC,5,56,20,8
CTEXT "0x10",IDC_STATIC,5,69,20,8
CTEXT "0x18",IDC_STATIC,5,82,20,8
EDITTEXT IDC_TAB2E_UniqueCode,95,121,60,12,ES_AUTOHSCROLL
EDITTEXT IDC_TAB2E_BodyCode,95,160,59,12,ES_AUTOHSCROLL |
ES_READONLY
LTEXT "Body Code",IDC_STATIC,5,162,60,8
EDITTEXT IDC_TAB2E_MagicLevel,95,199,60,13,ES_AUTOHSCROLL
LTEXT "Magic Level",IDC_STATIC,5,201,60,8
CTEXT "Static",IDC_TAB2E_ItemRecordID,75,6,79,9,SS_SUNKEN
EDITTEXT IDC_TAB2E_ItemCodeChar,70,108,25,12,ES_AUTOHSCROLL |
ES_READONLY
PUSHBUTTON "Decode",IDC_TAB2E_Decode,75,227,40,10
EDITTEXT IDC_TAB2E_Container,95,134,59,12,ES_AUTOHSCROLL |
ES_READONLY
LTEXT "Container",IDC_STATIC,5,136,60,8
CHECKBOX "Item List",IDC_TAB2E_ItemList,35,227,40,10,BS_PUSHLIKE

```

END

IDD_TAB2Rnd DIALOGEX 0, 0, 114, 278

STYLE WS_POPUP | WS_CAPTION | WS_SYSMENU

EXSTYLE WS_EX_TOOLWINDOW

CAPTION "Random Generator Output"

FONT 8, "Courier New", 0, 0, 0x1

BEGIN

```

EDITTEXT IDC_TAB2Rnd_Edit,5,5,104,268,ES_MULTILINE |
ES_AUTOVSCROLL | ES_READONLY | NOT WS_BORDER |
WS_VSCROLL,WS_EX_STATICEDGE

```

END

IDD_TAB2Magic DIALOGEX 0, 0, 335, 350

STYLE DS_MODALFRAME | DS_SETFOREGROUND | DS_CENTER | WS_POPUP | WS_CAPTION |
WS_SYSMENU

CAPTION "Magical Attributes"

FONT 8, "MS Sans Serif", 0, 0, 0x1

BEGIN

```

CONTROL "Force Magical Prefix Match",IDC_TAB2Magic_PrefixMatch,
"Button",BS_AUTOCHECKBOX | BS_NOTIFY | WS_TABSTOP,34,16,
102,10
CONTROL "Tree1",IDC_TAB2Magic_PrefixTree,"SysTreeView32",
TVS_HASBUTTONS | TVS_HASLINES | TVS_LINESATROOT |
TVS_DISABLEDRAGDROP | TVS_SHOWSELALWAYS | WS_TABSTOP,10,
30,150,175,WS_EX_STATICEDGE
CONTROL "Slider2",IDC_TAB2Magic_Prefix1Value,"msctls_trackbar32",
TBS_BOTH | TBS_NOTICKS | WS_TABSTOP,25,224,120,15
CONTROL "Slider2",IDC_TAB2Magic_Prefix2Value,"msctls_trackbar32",
TBS_BOTH | TBS_NOTICKS | WS_TABSTOP,25,257,120,15
CONTROL "Slider2",IDC_TAB2Magic_Prefix3Value,"msctls_trackbar32",
TBS_BOTH | TBS_NOTICKS | WS_TABSTOP,25,290,120,15
CONTROL "Slider2",IDC_TAB2Magic_Prefix4Value,"msctls_trackbar32",
TBS_BOTH | TBS_NOTICKS | WS_TABSTOP,25,325,120,15
LTEXT "Average Tries: 8787878",IDC_TAB2Magic_Average,170,307,
105,8
PUSHBUTTON "Search",IDOK,170,329,50,14
CONTROL "Force Magical Suffix Match",IDC_TAB2Magic_SuffixMatch,
"Button",BS_AUTOCHECKBOX | BS_NOTIFY | WS_TABSTOP,199,16,
102,10
CONTROL "Tree1",IDC_TAB2Magic_SuffixTree,"SysTreeView32",
TVS_HASBUTTONS | TVS_HASLINES | TVS_LINESATROOT |

```

```

TVS_DISABLEDRAHDROP | TVS_SHOWSELALWAYS | WS_TABSTOP,175,
30,150,175,WS_EX_STATICEDGE
CONTROL "Slider2",IDC_TAB2Magic_Suffix1Value,"msctls_trackbar32",
TBS_BOTH | TBS_NOTICKS | WS_TABSTOP,191,225,120,15
DEFPUSHBUTTON "Cancel",IDCANCEL,280,329,50,14
GROUPBOX "Prefix",IDC_STATIC,5,5,160,339,BS_CENTER
CONTROL "Force Value of 1st prefix effect to 444",
IDC_TAB2Magic_Prefix1Match,"Button",BS_AUTOCHECKBOX |
WS_TABSTOP,15,213,140,10
CONTROL "",IDC_STATIC,"Static",SS_ETCHEDHORZ,10,209,149,1
LTEXT "999",IDC_TAB2Magic_Prefix1ValueMin,10,228,13,8
RTEXT "999",IDC_TAB2Magic_Prefix1ValueMax,145,228,13,8
GROUPBOX "Suffix",IDC_STATIC,170,5,160,239,BS_CENTER
CONTROL "",IDC_STATIC,"Static",SS_ETCHEDHORZ,10,242,148,1
CONTROL "Force Value of 1st prefix effect to 444",
IDC_TAB2Magic_Prefix2Match,"Button",BS_AUTOCHECKBOX |
WS_TABSTOP,15,247,140,10
RTEXT "999",IDC_TAB2Magic_Prefix2ValueMax,145,260,13,8
LTEXT "999",IDC_TAB2Magic_Prefix2ValueMin,10,260,13,8
CONTROL "",IDC_STATIC,"Static",SS_ETCHEDHORZ,10,276,147,1
CONTROL "Force Value of 1st prefix effect to 444",
IDC_TAB2Magic_Prefix3Match,"Button",BS_AUTOCHECKBOX |
WS_TABSTOP,15,280,140,10
RTEXT "999",IDC_TAB2Magic_Prefix3ValueMax,145,293,13,8
LTEXT "999",IDC_TAB2Magic_Prefix3ValueMin,10,293,13,8
CONTROL "",IDC_STATIC,"Static",SS_ETCHEDHORZ,10,309,146,1
CONTROL "Force Value of 1st prefix effect to 444",
IDC_TAB2Magic_Prefix4Match,"Button",BS_AUTOCHECKBOX |
WS_TABSTOP,15,313,140,10
RTEXT "999",IDC_TAB2Magic_Prefix4ValueMax,145,328,13,8
LTEXT "999",IDC_TAB2Magic_Prefix4ValueMin,10,328,13,8
CONTROL "Force Value of 1st prefix effect to 444",
IDC_TAB2Magic_Suffix1Match,"Button",BS_AUTOCHECKBOX |
WS_TABSTOP,181,214,140,10
RTEXT "999",IDC_TAB2Magic_Suffix1ValueMax,311,228,13,8
LTEXT "999",IDC_TAB2Magic_Suffix1ValueMin,175,228,13,8
CONTROL "",IDC_STATIC,"Static",SS_ETCHEDHORZ,175,209,148,1
GROUPBOX "Required Experience Level",IDC_STATIC,170,247,160,45
LTEXT "Current Selection requires:",IDC_STATIC,175,258,84,8
CTEXT "Static",IDC_TAB2Magic_CurrentLevel,305,257,20,10,0,
WS_EX_STATICEDGE
CHECKBOX "Hide attributes that make the experience level exceed",
IDC_TAB2Magic_LockLevel,175,270,125,16,BS_MULTILINE
EDITTEXT IDC_TAB2Magic_LockValue,305,272,20,12,ES_CENTER |
ES_AUTOHSCROLL | ES_NUMBER
CHECKBOX "?",IDC_HELP,260,329,16,14,BS_ICON | BS_CENTER |
BS_VCENTER | BS_PUSHLIKE
PUSHBUTTON "Clear",IDC_TAB2Magic_Clear,225,329,30,14
END

```

```

IDD_TAB2SS_DIALOGEX 0, 0, 155, 70
STYLE DS_MODALFRAME | DS_CENTER | WS_POPUP | WS_CAPTION
CAPTION "Running Brute Force Attack..."
FONT 8, "MS Sans Serif", 0, 0, 0x1
BEGIN
CTEXT "0",IDC_TAB2SS_Counter,0,20,155,8
CTEXT "0",IDC_TAB2SS_Current,0,7,155,8
DEFPUSHBUTTON "Stop Search",IDC_TAB2SS_Stop,45,49,65,16
CONTROL "Progress1",IDC_TAB2SS_Scope,"msctls_progress32",
PBS_SMOOTH,5,34,145,10,WS_EX_STATICEDGE
END

```

```

IDD_TAB2Rare_DIALOGEX 0, 0, 445, 309
STYLE DS_MODALFRAME | DS_CENTER | WS_POPUP | WS_CAPTION | WS_SYSMENU
CAPTION "Rare Attributes"
FONT 8, "MS Sans Serif", 0, 0, 0x1
BEGIN
LISTBOX IDC_TAB2Rare_NamePrefix,10,15,75,75,LBS_SORT |
LBS_NOINTEGRALHEIGHT | NOT WS_BORDER | WS_VSCROLL |
WS_TABSTOP,WS_EX_STATICEDGE
LISTBOX IDC_TAB2Rare_NameSuffix,85,15,75,75,LBS_SORT |
LBS_NOINTEGRALHEIGHT | NOT WS_BORDER | WS_VSCROLL |
WS_TABSTOP,WS_EX_STATICEDGE
CONTROL "Tree1",IDC_TAB2Rare_TreeSuffix,"SysTreeView32",
TVS_HASBUTTONS | TVS_HASLINES | TVS_LINESATROOT |
TVS_DISABLEDRAHDROP | TVS_SHOWSELALWAYS | WS_TABSTOP,305,
15,130,265,WS_EX_STATICEDGE
PUSHBUTTON "Search",IDOK,197,290,50,14
DEFPUSHBUTTON "Cancel",IDCANCEL,390,290,50,14

```

```

GROUPBOX "Magical Attributes", IDC_STATIC, 5, 100, 160, 137, BS_CENTER
GROUPBOX "Name Prefix && Suffix", IDC_STATIC, 5, 5, 160, 90, BS_CENTER
GROUPBOX "Selected Attribute", IDC_STATIC, 170, 5, 270, 280, BS_CENTER
LTEXT "Average Tries: 8787878", IDC_TAB2Rare_Average, 6, 293, 127,
8
RADIOBUTTON "1st Attribute", IDC_TAB2Rare_Check1, 15, 115, 140, 8,
BS_NOTIFY
RADIOBUTTON "2nd Attribute", IDC_TAB2Rare_Check2, 15, 135, 140, 8,
BS_NOTIFY
RADIOBUTTON "3rd Attribute", IDC_TAB2Rare_Check3, 15, 155, 140, 8,
BS_NOTIFY
RADIOBUTTON "4th Attribute", IDC_TAB2Rare_Check4, 15, 175, 140, 8,
BS_NOTIFY
RADIOBUTTON "5th Attribute", IDC_TAB2Rare_Check5, 15, 195, 140, 8,
BS_NOTIFY
RADIOBUTTON "6th Attribute", IDC_TAB2Rare_Check6, 15, 215, 140, 8,
BS_NOTIFY
RTEXT "bla bla", IDC_TAB2Rare_Text1, 15, 123, 139, 8
RTEXT "bla bla", IDC_TAB2Rare_Text2, 15, 143, 139, 8
RTEXT "bla bla", IDC_TAB2Rare_Text3, 15, 163, 139, 8
RTEXT "bla bla", IDC_TAB2Rare_Text4, 15, 183, 139, 8
RTEXT "bla bla", IDC_TAB2Rare_Text5, 15, 203, 139, 8
RTEXT "bla bla", IDC_TAB2Rare_Text6, 15, 223, 139, 8
GROUPBOX "Required Experience Level", IDC_STATIC, 5, 240, 160, 45
LTEXT "Current Selection requires:", IDC_STATIC, 11, 251, 84, 8
CTEXT "Static", IDC_TAB2Rare_CurrentELevel, 141, 250, 20, 10, 0,
WS_EX_STATICEDGE
CHECKBOX "Hide attributes that make the expperience level exceed",
IDC_TAB2Rare_LockELevel, 11, 263, 125, 16, BS_MULTILINE
EDITTEXT IDC_TAB2Rare_LockValue, 141, 265, 20, 12, ES_CENTER |
ES_AUTOHSCROLL | ES_NUMBER
CONTROL "Tree1", IDC_TAB2Rare_TreePrefix, "SysTreeView32",
TVS_HASBUTTONS | TVS_HASLINES | TVS_LINESATROOT |
TVS_DISABLEDRAHDROP | TVS_SHOWSELALWAYS | WS_TABSTOP, 175,
15, 130, 265, WS_EX_STATICEDGE
CHECKBOX "?", IDC_CHELP, 370, 290, 16, 14, BS_ICON | BS_CENTER |
BS_VCENTER | BS_PUSHLIKE
PUSHBUTTON "Clear", IDC_TAB2Rare_Clear, 135, 290, 30, 14
END

IDD_SAVE_DIALOG DISCARDABLE 0, 0, 207, 124
STYLE DS_MODALFRAME | DS_CENTER | WS_POPUP | WS_CAPTION
CAPTION "Save File?"
FONT 8, "MS Sans Serif"
BEGIN
  DEFPUSHBUTTON "Save", IDOK, 50, 103, 50, 15
  PUSHBUTTON "Cancel", IDCANCEL, 105, 103, 50, 15
  CTEXT "Are you absolutly sure you want to save your changes?",
  IDC_STATIC, 11, 10, 185, 8
  CONTROL "Make Backup Copy", IDC_SAVE_Backup, "Button",
  BS_AUTOCHECKBOX | WS_TABSTOP, 64, 26, 79, 10
  LTEXT "WARNING: Only check the box if you are certain that your character file is read correctly by the ga
me!\nIt is a good choice to check this box the first time you save and then never again.",
  IDC_STATIC, 10, 44, 185, 32
  LTEXT "Backup files have the extention *.jam and are located in the same directory as the original charact
er files.",
  IDC_STATIC, 10, 80, 185, 16
END

IDD_TAB2Quantity_DIALOG DISCARDABLE 0, 0, 117, 95
STYLE DS_MODALFRAME | DS_CENTER | WS_POPUP | WS_CAPTION
CAPTION "Set Quantity"
FONT 8, "MS Sans Serif"
BEGIN
  LTEXT "Set Item Quantity to", IDC_STATIC, 27, 7, 63, 8
  EDITTEXT IDC_TAB2Quantity_Set, 18, 21, 34, 12, ES_CENTER |
  ES_AUTOHSCROLL | ES_NUMBER
  LTEXT "/ 4545 Max", IDC_TAB2Quantity_Max, 57, 23, 42, 8
  CTEXT "Diablo II's Maximum can be exceeded. Usual Max is 255. You can extend the maximum to 65535 in the
options.",
  IDC_STATIC, 5, 38, 105, 32
  DEFPUSHBUTTON "OK", IDOK, 21, 75, 35, 14
  PUSHBUTTON "Cancel", IDCANCEL, 61, 75, 35, 14
END

IDD_TAB2Durability_DIALOG DISCARDABLE 0, 0, 110, 79
STYLE DS_MODALFRAME | DS_CENTER | WS_POPUP | WS_CAPTION
CAPTION "Set Durability"
FONT 8, "MS Sans Serif"

```



```

BEGIN
  LTEXT          "Set Item Durability to",IDC_STATIC,21,7,66,8
  EDITTEXT      IDC_TAB2Durability_Set,21,21,25,12,ES_CENTER |
                ES_AUTOHSCROLL | ES_NUMBER
  EDITTEXT      IDC_TAB2Durability_Max,62,21,25,12,ES_CENTER |
                ES_AUTOHSCROLL | ES_NUMBER
  CTEXT         "/" ,IDC_STATIC,50,23,8,8
  CTEXT         "Maximum is 255.\nDurability must be >= Maximum.",
                IDC_STATIC,5,38,100,17
  DEFPUSHBUTTON "OK",IDOK,17,59,35,14
  PUSHBUTTON    "Cancel",IDCANCEL,57,59,35,14
END

IDD_TAB2Defense DIALOG DISCARDABLE 0, 0, 110, 74
STYLE DS_MODALFRAME | DS_CENTER | WS_POPUP | WS_CAPTION
CAPTION "Select Defense"
FONT 8, "MS Sans Serif"
BEGIN
  CTEXT         "Search for Item Base Defense",IDC_STATIC,5,7,98,8
  CTEXT         "Range 24 to 35",IDC_TAB2Defense_Range,5,20,98,8
  EDITTEXT      IDC_TAB2Defense_Value,42,35,25,12,ES_CENTER |
                ES_AUTOHSCROLL | ES_NUMBER
  DEFPUSHBUTTON "OK",IDOK,17,55,35,14
  PUSHBUTTON    "Cancel",IDCANCEL,57,55,35,14
END

IDD_TAB2Gems1 DIALOG DISCARDABLE 0, 0, 295, 74
STYLE DS_MODALFRAME | DS_SETFOREGROUND | DS_CENTER | WS_POPUP | WS_CAPTION |
  WS_SYSMENU
CAPTION "Edit Inserted Gems"
FONT 8, "MS Sans Serif"
BEGIN
  CONTROL      25547, IDC_TAB2Gems_Bmp1, "Static", SS_BITMAP, 15, 20, 19, 17
  COMBOBOX     IDC_TAB2Gems_Sel1, 45, 22, 100, 175, CBS_DROPDOWNLIST |
                WS_VSCROLL | WS_TABSTOP
  CTEXT         "Info Gem 1", IDC_TAB2Gems_Info1, 155, 15, 125, 30
  DEFPUSHBUTTON "OK", IDOK, 90, 55, 50, 14
  PUSHBUTTON    "Cancel", IDCANCEL, 145, 55, 50, 14
  GROUPBOX     "First Gem", IDC_TAB2Gems_Frame1, 5, 5, 285, 45
END

IDD_TAB2Gems2 DIALOG DISCARDABLE 0, 0, 295, 124
STYLE DS_MODALFRAME | DS_SETFOREGROUND | DS_CENTER | WS_POPUP | WS_CAPTION |
  WS_SYSMENU
CAPTION "Edit Inserted Gems"
FONT 8, "MS Sans Serif"
BEGIN
  GROUPBOX     "First Gem", IDC_TAB2Gems_Frame1, 5, 5, 285, 45
  CONTROL      25547, IDC_TAB2Gems_Bmp1, "Static", SS_BITMAP, 15, 20, 19, 17
  COMBOBOX     IDC_TAB2Gems_Sel1, 45, 22, 100, 175, CBS_DROPDOWNLIST |
                WS_VSCROLL | WS_TABSTOP
  CTEXT         "Info Gem 1", IDC_TAB2Gems_Info1, 155, 15, 125, 30
  GROUPBOX     "Second Gem", IDC_TAB2Gems_Frame2, 5, 55, 285, 45
  CONTROL      25547, IDC_TAB2Gems_Bmp2, "Static", SS_BITMAP, 15, 70, 19, 17
  COMBOBOX     IDC_TAB2Gems_Sel2, 45, 72, 100, 175, CBS_DROPDOWNLIST |
                WS_VSCROLL | WS_TABSTOP
  CTEXT         "Info Gem 2", IDC_TAB2Gems_Info2, 155, 65, 125, 30
  DEFPUSHBUTTON "OK", IDOK, 95, 105, 50, 14
  PUSHBUTTON    "Cancel", IDCANCEL, 150, 105, 50, 14
END

IDD_TAB2Gems7 DIALOG DISCARDABLE 0, 0, 495, 223
STYLE DS_MODALFRAME | DS_SETFOREGROUND | DS_CENTER | WS_POPUP | WS_CAPTION |
  WS_SYSMENU
CAPTION "Edit Inserted Gems"
FONT 8, "MS Sans Serif"
BEGIN
  GROUPBOX     "First Gem", IDC_TAB2Gems_Frame1, 5, 5, 240, 45
  CONTROL      25547, IDC_TAB2Gems_Bmp1, "Static", SS_BITMAP, 15, 20, 19, 17
  COMBOBOX     IDC_TAB2Gems_Sel1, 45, 22, 80, 175, CBS_DROPDOWNLIST |
                WS_VSCROLL | WS_TABSTOP
  CTEXT         "Info Gem 1", IDC_TAB2Gems_Info1, 130, 15, 110, 30
  DEFPUSHBUTTON "OK", IDOK, 195, 205, 50, 14
  PUSHBUTTON    "Cancel", IDCANCEL, 250, 205, 50, 14
  GROUPBOX     "Second Gem", IDC_TAB2Gems_Frame2, 5, 55, 240, 45
  CONTROL      25547, IDC_TAB2Gems_Bmp2, "Static", SS_BITMAP, 15, 70, 19, 17
  COMBOBOX     IDC_TAB2Gems_Sel2, 45, 72, 80, 175, CBS_DROPDOWNLIST |
                WS_VSCROLL | WS_TABSTOP
  CTEXT         "Info Gem 1", IDC_TAB2Gems_Info2, 130, 65, 110, 30

```

```

GROUPBOX      "Third Gem", IDC_TAB2Gems_Frame3, 5, 105, 240, 45
CONTROL       25547, IDC_TAB2Gems_Bmp3, "Static", SS_BITMAP, 15, 121, 19, 17
COMBOBOX      IDC_TAB2Gems_Sel3, 45, 122, 80, 175, CBS_DROPDOWNLIST |
              WS_VSCROLL | WS_TABSTOP
CTEXT        "Info Gem 1", IDC_TAB2Gems_Info3, 130, 115, 110, 30
GROUPBOX      "Fourth Gem", IDC_TAB2Gems_Frame4, 250, 5, 240, 45
CONTROL       25547, IDC_TAB2Gems_Bmp4, "Static", SS_BITMAP, 260, 20, 19, 17
COMBOBOX      IDC_TAB2Gems_Sel4, 290, 22, 80, 175, CBS_DROPDOWNLIST |
              WS_VSCROLL | WS_TABSTOP
CTEXT        "Info Gem 1", IDC_TAB2Gems_Info4, 375, 15, 110, 30
GROUPBOX      "Fifth Gem", IDC_TAB2Gems_Frame5, 250, 55, 240, 45
CONTROL       25547, IDC_TAB2Gems_Bmp5, "Static", SS_BITMAP, 260, 70, 19, 17
COMBOBOX      IDC_TAB2Gems_Sel5, 290, 72, 80, 175, CBS_DROPDOWNLIST |
              WS_VSCROLL | WS_TABSTOP
CTEXT        "Info Gem 1", IDC_TAB2Gems_Info5, 375, 65, 110, 30
GROUPBOX      "Sixth Gem", IDC_TAB2Gems_Frame6, 250, 105, 240, 45
CONTROL       25547, IDC_TAB2Gems_Bmp6, "Static", SS_BITMAP, 260, 120, 19, 17
COMBOBOX      IDC_TAB2Gems_Sel6, 290, 122, 80, 175, CBS_DROPDOWNLIST |
              WS_VSCROLL | WS_TABSTOP
CTEXT        "Info Gem 1", IDC_TAB2Gems_Info6, 375, 115, 110, 30
GROUPBOX      "Seventh Gem", IDC_TAB2Gems_Frame7, 128, 155, 240, 45
CONTROL       25547, IDC_TAB2Gems_Bmp7, "Static", SS_BITMAP, 138, 170, 19, 17
COMBOBOX      IDC_TAB2Gems_Sel7, 168, 172, 80, 175, CBS_DROPDOWNLIST |
              WS_VSCROLL | WS_TABSTOP
CTEXT        "Info Gem 1", IDC_TAB2Gems_Info7, 253, 165, 110, 30

```

END

```

IDD_TAB2Ear DIALOG DISCARDABLE 0, 0, 161, 119
STYLE DS_MODALFRAME | DS_SETFOREGROUND | DS_CENTER | WS_POPUP | WS_CAPTION |
      WS_SYSMENU
CAPTION "Edit Ear Properties"
FONT 8, "MS Sans Serif"
BEGIN
CONTROL       25503, IDC_TAB2Gems_Bmp1, "Static", SS_BITMAP, 71, 5, 19, 17
GROUPBOX      "Killed Opponent's", IDC_STATIC, 5, 30, 150, 64
LTEXT        "Name", IDC_STATIC, 12, 47, 30, 8
EDITTEXT      IDC_TAB2Ear_Name, 42, 45, 105, 12, ES_AUTOHSCROLL
LTEXT        "Class", IDC_STATIC, 12, 61, 30, 8
COMBOBOX      IDC_TAB2Ear_Class, 42, 59, 105, 70, CBS_DROPDOWNLIST |
              WS_VSCROLL | WS_TABSTOP
LTEXT        "Level", IDC_STATIC, 12, 76, 30, 8
EDITTEXT      IDC_TAB2Ear_Level, 42, 74, 105, 12, ES_AUTOHSCROLL |
              ES_NUMBER
DEFPUSHBUTTON "OK", IDOK, 28, 100, 50, 14
PUSHBUTTON    "Cancel", IDCANCEL, 83, 100, 50, 14

```

END

```

IDD_NEW DIALOG DISCARDABLE 0, 0, 162, 66
STYLE DS_MODALFRAME | DS_SETFOREGROUND | DS_CENTER | WS_POPUP | WS_CAPTION |
      WS_SYSMENU
CAPTION "Create New Character"
FONT 8, "MS Sans Serif"
BEGIN
DEFPUSHBUTTON "Create", IDC_NEW_CreateNewbie, 56, 45, 50, 14
LTEXT        "Name", IDC_STATIC, 10, 29, 30, 8
LTEXT        "Class", IDC_STATIC, 10, 12, 30, 8
EDITTEXT      IDC_NEW_Name, 46, 27, 105, 12, ES_AUTOHSCROLL
COMBOBOX      IDC_NEW_Class, 46, 10, 105, 70, CBS_DROPDOWNLIST | WS_VSCROLL |
              WS_TABSTOP

```

END

```

IDD_RENAME DIALOG DISCARDABLE 0, 0, 162, 101
STYLE DS_MODALFRAME | DS_SETFOREGROUND | DS_CENTER | WS_POPUP | WS_CAPTION |
      WS_SYSMENU
CAPTION "Rename Character"
FONT 8, "MS Sans Serif"
BEGIN
LTEXT        "New Name", -1, 10, 12, 40, 8
EDITTEXT      IDC_RENAME_Name, 55, 10, 95, 12, ES_AUTOHSCROLL | WS_GROUP
CONTROL       "Rename character and move all corresponding files.",
              IDC_RENAME_Move, "Button", BS_AUTORADIOBUTTON |
              BS_MULTILINE | WS_GROUP, 20, 30, 120, 16
CONTROL       "Copy only character file, leave old character and map files untouched.",
              IDC_RENAME_Copy, "Button", BS_AUTORADIOBUTTON |
              BS_MULTILINE, 20, 50, 120, 23
DEFPUSHBUTTON "Rename", IDOK, 27, 80, 50, 14, WS_GROUP
PUSHBUTTON    "Cancel", IDCANCEL, 83, 80, 50, 14, WS_GROUP

```

END

```

IDD_TAB2RingImage DIALOG DISCARDABLE 0, 0, 188, 66
STYLE DS_MODALFRAME | DS_SETFOREGROUND | DS_CENTER | WS_POPUP | WS_CAPTION |
WS_SYSMENU
CAPTION "Select Ring Image"
FONT 8, "MS Sans Serif"
BEGIN
    DEFPUSHBUTTON "OK",IDOK,41,45,50,14,WS_GROUP
    PUSHBUTTON "Cancel",IDCANCEL,96,45,50,14,WS_GROUP
    CONTROL "Image 1",IDC_TAB2RingImage_Image1,"Button",
        BS_AUTORADIOBUTTON | BS_BITMAP | BS_PUSHLIKE | WS_GROUP,
        10,10,30,25
    CONTROL "Image 2",IDC_TAB2RingImage_Image2,"Button",
        BS_AUTORADIOBUTTON | BS_BITMAP | BS_PUSHLIKE,45,10,30,25
    CONTROL "Image 3",IDC_TAB2RingImage_Image3,"Button",
        BS_AUTORADIOBUTTON | BS_BITMAP | BS_PUSHLIKE,80,10,30,25
    CONTROL "Image 4",IDC_TAB2RingImage_Image4,"Button",
        BS_AUTORADIOBUTTON | BS_BITMAP | BS_PUSHLIKE,115,10,30,
        25
    CONTROL "Image 5",IDC_TAB2RingImage_Image5,"Button",
        BS_AUTORADIOBUTTON | BS_BITMAP | BS_PUSHLIKE,150,10,30,
        25
END

```

```

IDD_TAB2AmuletImage DIALOG DISCARDABLE 0, 0, 130, 66
STYLE DS_MODALFRAME | DS_SETFOREGROUND | DS_CENTER | WS_POPUP | WS_CAPTION |
WS_SYSMENU
CAPTION "Select Amulet Image"
FONT 8, "MS Sans Serif"
BEGIN
    DEFPUSHBUTTON "OK",IDOK,12,45,50,14,WS_GROUP
    PUSHBUTTON "Cancel",IDCANCEL,67,45,50,14,WS_GROUP
    CONTROL "Image 1",IDC_TAB2AmuletImage_Image1,"Button",
        BS_AUTORADIOBUTTON | BS_BITMAP | BS_PUSHLIKE | WS_GROUP,
        10,10,30,25
    CONTROL "Image 2",IDC_TAB2AmuletImage_Image2,"Button",
        BS_AUTORADIOBUTTON | BS_BITMAP | BS_PUSHLIKE,50,10,30,25
    CONTROL "Image 3",IDC_TAB2AmuletImage_Image3,"Button",
        BS_AUTORADIOBUTTON | BS_BITMAP | BS_PUSHLIKE,90,10,30,25
END

```

```

IDD_IBWSR DIALOGEX 0, 0, 282, 130
STYLE DS_3DLOOK | DS_CONTROL | WS_CHILD | WS_CLIPSIBLINGS | WS_BORDER
FONT 8, "MS Sans Serif", 0, 0, 0x1
BEGIN
    CONTROL "",IDC_IBWSR_RichText,"RICHEDIT",ES_CENTER |
        ES_MULTILINE | ES_AUTOVSCROLL | ES_READONLY | ES_NUMBER |
        WS_VSCROLL | WS_TABSTOP,70,5,207,120,WS_EX_STATICEDGE
    CONTROL 327,IDC_IBWSR_Bitmap,"Static",SS_BITMAP | SS_CENTERIMAGE |
        SS_REALSIZEIMAGE,15,28,39,72
END

```

```

IDD_UOPTIONS DIALOG DISCARDABLE 0, 0, 197, 135
STYLE DS_MODALFRAME | DS_CENTER | WS_POPUP | WS_CAPTION | WS_SYSMENU
CAPTION "Options"
FONT 8, "MS Sans Serif"
BEGIN
    DEFPUSHBUTTON "OK",IDOK,46,115,50,14
    PUSHBUTTON "Cancel",IDCANCEL,101,115,50,14
    CONTROL "Associate with *.d2s and *.d2i, *.item, *.itm, *.ite files for nice icons and open functions.",
        IDC_UOPTIONS_Associations,"Button",BS_AUTOCHECKBOX |
        BS_MULTILINE | WS_TABSTOP,10,10,175,15
    CONTROL "Item Quantity may exceed 255\n(Extended Quantity Field)",
        IDC_UOPTIONS_ExceedQuantity,"Button",BS_AUTOCHECKBOX |
        BS_MULTILINE | WS_TABSTOP,10,30,175,16
    CONTROL "Show tooltip help on the editor tabs. Disable this if it annoys you.",
        IDC_UOPTIONS_Tooltips,"Button",BS_AUTOCHECKBOX |
        BS_MULTILINE | WS_TABSTOP,10,55,175,16
    CONTROL "Disable the annoying "Are you sure?!?" messages all around in the editor.",
        IDC_UOPTIONS_AnnoyingMsgs,"Button",BS_AUTOCHECKBOX |
        BS_MULTILINE | WS_TABSTOP,10,75,175,16
END

```

```

IDD_TAB2Gems3 DIALOG DISCARDABLE 0, 0, 295, 174
STYLE DS_MODALFRAME | DS_SETFOREGROUND | DS_CENTER | WS_POPUP | WS_CAPTION |
WS_SYSMENU
CAPTION "Edit Inserted Gems"
FONT 8, "MS Sans Serif"
BEGIN
    GROUPBOX "First Gem",IDC_TAB2Gems_Frame1,5,5,285,45

```

```

CONTROL      25547, IDC_TAB2Gems_Bmp1, "Static", SS_BITMAP, 15, 20, 19, 17
COMBOBOX     IDC_TAB2Gems_Sel1, 45, 22, 100, 175, CBS_DROPDOWNLIST |
              WS_VSCROLL | WS_TABSTOP
CTEXT        "Info Gem 1", IDC_TAB2Gems_Info1, 155, 15, 125, 30
GROUPBOX     "Second Gem", IDC_TAB2Gems_Frame2, 5, 55, 285, 45
CONTROL      25547, IDC_TAB2Gems_Bmp2, "Static", SS_BITMAP, 15, 70, 19, 17
COMBOBOX     IDC_TAB2Gems_Sel2, 45, 72, 100, 175, CBS_DROPDOWNLIST |
              WS_VSCROLL | WS_TABSTOP
CTEXT        "Info Gem 2", IDC_TAB2Gems_Info2, 155, 65, 125, 30
GROUPBOX     "Third Gem", IDC_TAB2Gems_Frame3, 5, 105, 285, 45
CONTROL      25547, IDC_TAB2Gems_Bmp3, "Static", SS_BITMAP, 15, 121, 19, 17
COMBOBOX     IDC_TAB2Gems_Sel3, 45, 123, 100, 175, CBS_DROPDOWNLIST |
              WS_VSCROLL | WS_TABSTOP
CTEXT        "Info Gem 3", IDC_TAB2Gems_Info3, 155, 115, 125, 30
DEFPUSHBUTTON "OK", IDOK, 95, 155, 50, 14
PUSHBUTTON   "Cancel", IDCANCEL, 150, 155, 50, 14
END

```

```

IDD_HELP_DIALOGEX 0, 0, 138, 274
STYLE WS_POPUP | WS_CAPTION | WS_SYSMENU | WS_THICKFRAME
EXSTYLE WS_EX_TOOLWINDOW
CAPTION "Instant Help Reference"
FONT 8, "Courier New", 0, 0, 0x1
BEGIN
CONTROL      "", IDC_HELP_Text, "RICHEDIT", ES_CENTER | ES_MULTILINE |
              ES_AUTOVSCROLL | ES_READONLY | ES_NUMBER | WS_VSCROLL |
              WS_GROUP, 0, 0, 138, 274, WS_EX_STATICEDGE
END

```

```

IDD_EOPTIONS_DIALOG DISCARDABLE 0, 0, 262, 191
STYLE DS_MODALFRAME | DS_CENTER | WS_POPUP | WS_CAPTION | WS_SYSMENU
CAPTION "Expert Options"
FONT 8, "MS Sans Serif"
BEGIN
DEFPUSHBUTTON "OK", IDOK, 78, 170, 50, 14
PUSHBUTTON   "Cancel", IDCANCEL, 133, 170, 50, 14
CONTROL      "Auto-detected", IDC_OPTIONS_IFormat1, "Button",
              BS_AUTORADIOBUTTON, 15, 36, 100, 10
GROUPBOX     "Created Item Record Format", IDC_STATIC, 5, 25, 130, 50,
              BS_CENTER
CONTROL      "for D2 <= 1.03", IDC_OPTIONS_IFormat2, "Button",
              BS_AUTORADIOBUTTON, 15, 48, 95, 10
CONTROL      "for D2 >= 1.04", IDC_OPTIONS_IFormat3, "Button",
              BS_AUTORADIOBUTTON, 15, 59, 95, 10
GROUPBOX     "Enhanced Item Hacking", IDC_STATIC, 5, 80, 131, 65, BS_CENTER
CONTROL      "Make All Items Socketable", IDC_UOPTIONS_AllSocketable,
              "Button", BS_AUTOCHECKBOX | WS_TABSTOP, 15, 95, 100, 10
CONTROL      "Allow 7 Gems on socketed Item", IDC_EOPTIONS_7Gems,
              "Button", BS_AUTOCHECKBOX | BS_MULTILINE | WS_TABSTOP, 15,
              110, 115, 8
CTEXT        "! Use these options with caution! \nUnder usual circumstances none of these are activated!",
              IDC_STATIC, 5, 5, 250, 16
END

```

```

IDD_TAB2S_DIALOGEX 0, 0, 239, 173
STYLE DS_MODALFRAME | DS_CENTER | WS_MINIMIZEBOX | WS_POPUP | WS_CAPTION |
              WS_SYSMENU
CAPTION "Running Brute Force Attack..."
FONT 8, "MS Sans Serif"
BEGIN
CTEXT        "0", IDC_TAB2SA_Counter, 10, 23, 220, 8
CTEXT        "0", IDC_TAB2SA_Current, 10, 11, 220, 8
DEFPUSHBUTTON "Stop Search", IDC_TAB2SA_Stop, 90, 152, 65, 16
LTEXT        "Thread Priority:", IDC_TAB2SA_Static4, 10, 94, 48, 8
RTEXT        "Normal", IDC_TAB2SA_Priority, 58, 94, 46, 8
CONTROL      "Slider1", IDC_TAB2SA_Slider, "msctls_trackbar32",
              TBS_AUTOTICKS | TBS_TOP | TBS_NOTICKS | WS_TABSTOP, 9, 105,
              96, 14
CONTROL      "Progress1", IDC_TAB2SA_Scope, "msctls_progress32",
              PBS_SMOOTH, 10, 35, 220, 10, WS_EX_STATICEDGE
CHECKBOX     "Search Multiple Levels", IDC_TAB2SA_TraverseMagicLevels,
              10, 71, 87, 10
LTEXT        "Current Magic Level:", IDC_TAB2SA_Static2, 10, 59, 66, 8
RTEXT        "500", IDC_TAB2SA_MagicLevel, 90, 59, 15, 8
CONTROL      "", IDC_TAB2SA_Static1, "Static", SS_ETCHEDFRAME, 5, 5, 230, 45
CONTROL      "", IDC_TAB2SA_Static5, "Static", SS_ETCHEDFRAME, 115, 55, 120,
              92
CONTROL      "", IDC_TAB2SA_Static3, "Static", SS_ETCHEDFRAME, 5, 88, 105,
              36

```

```

CHECKBOX      "Manual Hit Selection",IDC_TAB2SA_HitSelection,121,60,
              109,10
LISTBOX       IDC_TAB2SA_HitList,120,73,110,69,LBS_SORT |
              LBS_NOINTEGRALHEIGHT | WS_DISABLED | WS_VSCROLL |
              WS_TABSTOP
CONTROL       "",IDC_TAB2SA_Static6,"Static",SS_ETCHEDFRAME,5,55,105,
              30
CHECKBOX      "?",IDC_CHELP,220,153,16,15,BS_ICON | BS_CENTER |
              BS_VCENTER | BS_PUSHLIKE
CONTROL       "",IDC_TAB2SA_Static7,"Static",SS_ETCHEDFRAME,5,129,105,
              18
CTEXT        "Speed",IDC_TAB2AS_Speed,10,134,95,8
END

```

```

IDD_TAB2ItemList DIALOGEX 0, 0, 67, 231
STYLE WS_POPUP | WS_CAPTION | WS_SYSMENU
EXSTYLE WS_EX_TOOLWINDOW
CAPTION "Item List"
FONT 8, "MS Sans Serif"
BEGIN
    LISTBOX      IDC_TAB2ItemList,0,0,67,230,LBS_NOINTEGRALHEIGHT | NOT
                WS_BORDER | WS_VSCROLL | WS_TABSTOP,WS_EX_CLIENTEDGE
END

```

```

IDD_TAB2Grid DIALOGEX 0, 0, 192, 118
STYLE DS_CENTER | WS_POPUP | WS_CAPTION | WS_SYSMENU
EXSTYLE WS_EX_TOOLWINDOW
CAPTION "Inventory Grid"
FONT 8, "MS Sans Serif"
BEGIN
    CONTROL      261,IDC_TAB2Grid_Grid,"Static",SS_BITMAP |
                SS_REALSIZEIMAGE,0,0,59,72
END

```

```

IDD_TAB2ExGrid DIALOGEX 0, 0, 456, 298
STYLE WS_CHILD
FONT 8, "MS Sans Serif"
BEGIN
    GROUPBOX     "Inventory",IDC_STATIC,6,3,220,262,BS_CENTER,
                WS_EX_TRANSPARENT
    GROUPBOX     "Selected Item",IDC_STATIC,230,3,220,123,BS_CENTER,
                WS_EX_TRANSPARENT
    GROUPBOX     "Horadric Cube",IDC_STATIC,5,265,63,27,BS_CENTER,
                WS_EX_TRANSPARENT
    GROUPBOX     "Belt",IDC_STATIC,71,265,85,27,BS_CENTER,
                WS_EX_TRANSPARENT
    GROUPBOX     "Stash",IDC_STATIC,159,264,122,28,BS_CENTER,
                WS_EX_TRANSPARENT
    CONTROL      "ItemTree",IDC_TAB2_ItemTree,"SysTreeView32",
                TVS_HASBUTTONS | TVS_HASLINES | TVS_LINESATROOT |
                TVS_NOTOOLTIPS | TVS_FULLROWSELECT | WS_TABSTOP,288,139,
                160,150,WS_EX_STATICEDGE
    CONTROL      264,IDC_TAB2_Body,"Static",SS_BITMAP | SS_REALSIZEIMAGE,
                9,12,213,152
    CONTROL      262,IDC_TAB2_Inv,"Static",SS_BITMAP | SS_REALSIZEIMAGE,
                20,166,194,72
    CONTROL      "Expert Toolbox",IDC_TAB2_ExpertMode,"Button",
                BS_AUTOCHECKBOX | WS_TABSTOP,380,112,63,10
    PUSHBUTTON   "Save Item",IDC_TAB2_Save,230,130,51,12
    PUSHBUTTON   "Load Item",IDC_TAB2_Load,230,142,51,12,BS_CENTER |
                BS_VCENTER
    CONTROL      287,IDC_TAB2_CopyBuffer,"Static",SS_BITMAP |
                SS_REALSIZEIMAGE,235,166,39,72
    GROUPBOX     "Built-In Item Tree (Drag into Inventory)",IDC_STATIC,
                285,130,165,163,BS_CENTER,WS_EX_TRANSPARENT
    GROUPBOX     "Copy Buffer",IDC_STATIC,230,156,52,85,BS_CENTER,
                WS_EX_TRANSPARENT
    PUSHBUTTON   "Randomize",IDC_TAB2_AttrRandom,235,110,50,12,
                WS_DISABLED
    CONTROL      "",IDC_TAB2_RichText,"RICHEDIT",ES_CENTER | ES_MULTILINE |
                ES_AUTOVSCROLL | ES_READONLY | ES_NUMBER | WS_VSCROLL |
                WS_TABSTOP,235,12,207,96,WS_EX_STATICEDGE
    PUSHBUTTON   "Batch Action",IDC_TAB2_Batch,320,110,50,12
    PUSHBUTTON   "<",IDC_TAB2_HistoryBack,290,110,10,12,WS_DISABLED
    PUSHBUTTON   ">",IDC_TAB2_HistoryNext,300,110,10,12,WS_DISABLED
    CHECKBOX     "Open",IDC_TAB2_OpenCube,9,277,55,11,BS_PUSHLIKE
    CHECKBOX     "Open",IDC_TAB2_OpenBelt,75,277,78,11,BS_PUSHLIKE
    CHECKBOX     "Open",IDC_TAB2_OpenStash,163,277,113,11,BS_PUSHLIKE
END

```

```
////////////////////////////////////  
//  
// DESIGNINFO  
//  
#ifdef APSTUDIO_INVOKED  
GUIDELINES DESIGNINFO DISCARDABLE  
BEGIN  
    IDD_TAB3, DIALOG  
    BEGIN  
        RIGHTMARGIN, 275  
        BOTTOMMARGIN, 91  
    END  
  
    IDD_TAB0, DIALOG  
    BEGIN  
        RIGHTMARGIN, 309  
        BOTTOMMARGIN, 195  
    END  
  
    IDD_TAB1, DIALOG  
    BEGIN  
        RIGHTMARGIN, 309  
        TOPMARGIN, 1  
        BOTTOMMARGIN, 195  
    END  
  
    IDD_TAB2, DIALOG  
    BEGIN  
        RIGHTMARGIN, 455  
        BOTTOMMARGIN, 304  
    END  
  
    IDD_TAB4, DIALOG  
    BEGIN  
        RIGHTMARGIN, 309  
        BOTTOMMARGIN, 195  
    END  
  
    IDD_TAB5, DIALOG  
    BEGIN  
        RIGHTMARGIN, 309  
        BOTTOMMARGIN, 195  
    END  
  
    IDD_COWLEVEL, DIALOG  
    BEGIN  
        LEFTMARGIN, 7  
        RIGHTMARGIN, 435  
        TOPMARGIN, 7  
        BOTTOMMARGIN, 259  
    END  
  
    IDD_PROGRESS, DIALOG  
    BEGIN  
        LEFTMARGIN, 7  
        RIGHTMARGIN, 177  
        TOPMARGIN, 7  
        BOTTOMMARGIN, 66  
    END  
  
    IDD_INFO, DIALOG  
    BEGIN  
        LEFTMARGIN, 7  
        RIGHTMARGIN, 250  
        TOPMARGIN, 7  
        BOTTOMMARGIN, 136  
    END  
  
    IDD_TAB2E, DIALOG  
    BEGIN  
        LEFTMARGIN, 7  
        RIGHTMARGIN, 153  
        TOPMARGIN, 7  
        BOTTOMMARGIN, 263  
    END  
END
```

```
IDD_TAB2Rnd, DIALOG
BEGIN
    LEFTMARGIN, 7
    RIGHTMARGIN, 107
    TOPMARGIN, 7
    BOTTOMMARGIN, 271
END
```

```
IDD_TAB2Magic, DIALOG
BEGIN
    LEFTMARGIN, 7
    RIGHTMARGIN, 328
    TOPMARGIN, 7
    BOTTOMMARGIN, 343
END
```

```
IDD_TAB2SS, DIALOG
BEGIN
    LEFTMARGIN, 7
    RIGHTMARGIN, 148
    TOPMARGIN, 7
    BOTTOMMARGIN, 63
END
```

```
IDD_TAB2Rare, DIALOG
BEGIN
    LEFTMARGIN, 7
    RIGHTMARGIN, 438
    TOPMARGIN, 7
    BOTTOMMARGIN, 302
END
```

```
IDD_SAVE, DIALOG
BEGIN
    LEFTMARGIN, 7
    RIGHTMARGIN, 200
    TOPMARGIN, 7
    BOTTOMMARGIN, 117
END
```

```
IDD_TAB2Quantity, DIALOG
BEGIN
    LEFTMARGIN, 7
    RIGHTMARGIN, 110
    TOPMARGIN, 7
    BOTTOMMARGIN, 88
END
```

```
IDD_TAB2Durability, DIALOG
BEGIN
    LEFTMARGIN, 7
    RIGHTMARGIN, 103
    TOPMARGIN, 7
    BOTTOMMARGIN, 72
END
```

```
IDD_TAB2Defense, DIALOG
BEGIN
    LEFTMARGIN, 7
    RIGHTMARGIN, 103
    TOPMARGIN, 7
    BOTTOMMARGIN, 67
END
```

```
IDD_TAB2Gems1, DIALOG
BEGIN
    LEFTMARGIN, 7
    RIGHTMARGIN, 288
    TOPMARGIN, 7
    BOTTOMMARGIN, 67
END
```

```
IDD_TAB2Gems2, DIALOG
BEGIN
    LEFTMARGIN, 7
    RIGHTMARGIN, 288
    TOPMARGIN, 7
    BOTTOMMARGIN, 117
END
```

```
IDD_TAB2Gems7, DIALOG
BEGIN
    LEFTMARGIN, 7
    RIGHTMARGIN, 488
    TOPMARGIN, 7
    BOTTOMMARGIN, 216
END
```

```
IDD_TAB2Ear, DIALOG
BEGIN
    LEFTMARGIN, 7
    RIGHTMARGIN, 154
    TOPMARGIN, 7
    BOTTOMMARGIN, 112
END
```

```
IDD_NEW, DIALOG
BEGIN
    LEFTMARGIN, 7
    RIGHTMARGIN, 155
    TOPMARGIN, 7
    BOTTOMMARGIN, 59
END
```

```
IDD_RENAME, DIALOG
BEGIN
    LEFTMARGIN, 7
    RIGHTMARGIN, 155
    TOPMARGIN, 7
    BOTTOMMARGIN, 94
END
```

```
IDD_TAB2RingImage, DIALOG
BEGIN
    LEFTMARGIN, 7
    RIGHTMARGIN, 181
    TOPMARGIN, 7
    BOTTOMMARGIN, 59
END
```

```
IDD_TAB2AmuletImage, DIALOG
BEGIN
    LEFTMARGIN, 7
    RIGHTMARGIN, 123
    TOPMARGIN, 7
    BOTTOMMARGIN, 59
END
```

```
IDD_IBWSR, DIALOG
BEGIN
    RIGHTMARGIN, 281
    BOTTOMMARGIN, 99
END
```

```
IDD_UOPTIONS, DIALOG
BEGIN
    LEFTMARGIN, 7
    RIGHTMARGIN, 190
    TOPMARGIN, 7
    BOTTOMMARGIN, 128
END
```

```
IDD_TAB2Gems3, DIALOG
BEGIN
    LEFTMARGIN, 7
    RIGHTMARGIN, 288
    TOPMARGIN, 7
    BOTTOMMARGIN, 167
END
```

```
IDD_HELP, DIALOG
BEGIN
    LEFTMARGIN, 7
    RIGHTMARGIN, 131
    TOPMARGIN, 7
    BOTTOMMARGIN, 267
END
```



```

IDD_OPTIONS, DIALOG
BEGIN
    LEFTMARGIN, 7
    RIGHTMARGIN, 255
    TOPMARGIN, 7
    BOTTOMMARGIN, 184
END

IDD_TAB2S, DIALOG
BEGIN
    LEFTMARGIN, 7
    RIGHTMARGIN, 232
    TOPMARGIN, 7
    BOTTOMMARGIN, 166
END

IDD_TAB2ItemList, DIALOG
BEGIN
    LEFTMARGIN, 7
    RIGHTMARGIN, 60
    TOPMARGIN, 7
    BOTTOMMARGIN, 224
END

IDD_TAB2Grid, DIALOG
BEGIN
    LEFTMARGIN, 7
    RIGHTMARGIN, 185
    TOPMARGIN, 7
    BOTTOMMARGIN, 111
END

IDD_TAB2ExGrid, DIALOG
BEGIN
    RIGHTMARGIN, 455
    BOTTOMMARGIN, 267
END

END
#endif // APSTUDIO_INVOKED

////////////////////////////////////
//
// Menu
//

IDR_MAINDIALOG MENU DISCARDABLE
BEGIN
    POPUP "&File"
    BEGIN
        MENUITEM "&New\tCtrl+N",           IDR_NEW
        MENUITEM "&Open\tCtrl+O",         IDR_OPEN
        MENUITEM "&Save\tCtrl+S",         IDR_SAVE
        MENUITEM "&Reload\tCtrl+R",       IDR_RELOAD
        MENUITEM "&Close",                IDR_CLOSE
        MENUITEM SEPARATOR
        MENUITEM "O&ptions",               IDR_UOPTIONS
        MENUITEM "Save Text Summary",      IDR_TEXTFILE
        MENUITEM SEPARATOR
        MENUITEM "&Exit",                  IDR_EXIT
    END
    MENUITEM "&Info",                      IDR_INFO, HELP
END

IDR_BATCH MENU DISCARDABLE
BEGIN
    POPUP "TAB1"
    BEGIN
        MENUITEM "Restore Constitution",   IDR_TAB1_RestoreConstitution
        POPUP "Set All Character Stats to"
        BEGIN
            MENUITEM "40 Points",          IDR_TAB1_SetAllStats40
            MENUITEM "60 Points",          IDR_TAB1_SetAllStats60
            MENUITEM "80 Points",          IDR_TAB1_SetAllStats80
            MENUITEM "100 Points",         IDR_TAB1_SetAllStats100
            MENUITEM "120 Points",         IDR_TAB1_SetAllStats120
            MENUITEM "140 Points",         IDR_TAB1_SetAllStats140
            MENUITEM "160 Points",         IDR_TAB1_SetAllStats160
            MENUITEM "180 Points",         IDR_TAB1_SetAllStats180
        END
    END
END

```

```

MENUITEM "200 Points",      IDR_TAB1_SetAllStats200
MENUITEM "250 Points",      IDR_TAB1_SetAllStats250
MENUITEM "300 Points",      IDR_TAB1_SetAllStats300
MENUITEM "350 Points",      IDR_TAB1_SetAllStats350
MENUITEM "400 Points",      IDR_TAB1_SetAllStats400
MENUITEM "450 Points",      IDR_TAB1_SetAllStats450
MENUITEM "500 Points",      IDR_TAB1_SetAllStats500

```

END

POPUP "Set All Constitution Values to"

BEGIN

```

MENUITEM "400 Points",      IDR_TAB1_SetAllConstitution400
MENUITEM "600 Points",      IDR_TAB1_SetAllConstitution600
MENUITEM "800 Points",      IDR_TAB1_SetAllConstitution800
MENUITEM "1000 Points",     IDR_TAB1_SetAllConstitution1000
MENUITEM "1500 Points",     IDR_TAB1_SetAllConstitution1500
MENUITEM "2000 Points",     IDR_TAB1_SetAllConstitution2000
MENUITEM "3000 Points",     IDR_TAB1_SetAllConstitution3000
MENUITEM "5000 Points",     IDR_TAB1_SetAllConstitution5000

```

END

END

POPUP "TAB2"

BEGIN

POPUP "Fill Belt Slots"

BEGIN

POPUP "All Columns with"

BEGIN

```

MENUITEM "Minor Healing Potions",  IDR_TAB2_BeltMinorHealing
MENUITEM "Light Healing Potions",  IDR_TAB2_BeltLightHealing
MENUITEM "Healing Potions",        IDR_TAB2_BeltHealing
MENUITEM "Greater Healing Potions", IDR_TAB2_BeltGreaterHealing
MENUITEM "Super Healing Potions",  IDR_TAB2_BeltSuperHealing
MENUITEM SEPARATOR
MENUITEM "Minor Mana Potions",      IDR_TAB2_BeltMinorMana
MENUITEM "Light Mana Potions",      IDR_TAB2_BeltLightMana
MENUITEM "Mana Potions",            IDR_TAB2_BeltMana
MENUITEM "Greater Mana Potions",    IDR_TAB2_BeltGreaterMana
MENUITEM "Super Mana Potions",      IDR_TAB2_BeltSuperMana
MENUITEM SEPARATOR
MENUITEM "Rejuvenation Potions",    IDR_TAB2_BeltRejuv
MENUITEM "Full Rejuventation Potions", IDR_TAB2_BeltFullRejuv

```

END

POPUP "Column 1 with"

BEGIN

```

MENUITEM "Minor Healing Potions",  IDR_TAB2_Slot1MinorHealing
MENUITEM "Light Healing Potions",  IDR_TAB2_Slot1LightHealing
MENUITEM "Healing Potions",        IDR_TAB2_Slot1Healing
MENUITEM "Greater Healing Potions", IDR_TAB2_Slot1GreaterHealing
MENUITEM "Super Healing Potions",  IDR_TAB2_Slot1SuperHealing
MENUITEM SEPARATOR
MENUITEM "Minor Mana Potions",      IDR_TAB2_Slot1MinorMana
MENUITEM "Light Mana Potions",      IDR_TAB2_Slot1LightMana
MENUITEM "Mana Potions",            IDR_TAB2_Slot1Mana
MENUITEM "Greater Mana Potions",    IDR_TAB2_Slot1GreaterMana
MENUITEM "Super Mana Potions",      IDR_TAB2_Slot1SuperMana

```

```

MENUITEM SEPARATOR
MENUITEM "Rejuvenation Potions",      IDR_TAB2_Slot1Rejuv
MENUITEM "Full Rejuventation Potions", IDR_TAB2_Slot1FullRejuv

END
POPUP "Column 2 with"
BEGIN
  MENUITEM "Minor Healing Potions",    IDR_TAB2_Slot2MinorHealing
  MENUITEM "Light Healing Potions",    IDR_TAB2_Slot2LightHealing
  MENUITEM "Healing Potions",         IDR_TAB2_Slot2Healing
  MENUITEM "Super Healing Potions",    IDR_TAB2_Slot2SuperHealing
  MENUITEM "Greater Healing Potions",  IDR_TAB2_Slot2GreaterHealing

  MENUITEM SEPARATOR
  MENUITEM "Minor Mana Potions",       IDR_TAB2_Slot2MinorMana
  MENUITEM "Light Mana Potions",       IDR_TAB2_Slot2LightMana
  MENUITEM "Mana Potions",            IDR_TAB2_Slot2Mana
  MENUITEM "Greater Mana Potions",    IDR_TAB2_Slot2GreaterMana
  MENUITEM "Super Mana Potions",       IDR_TAB2_Slot2SuperMana

  MENUITEM SEPARATOR
  MENUITEM "Rejuvenation Potions",    IDR_TAB2_Slot2Rejuv
  MENUITEM "Full Rejuventation Potions", IDR_TAB2_Slot2FullRejuv

END
POPUP "Column 3 with"
BEGIN
  MENUITEM "Minor Healing Potions",    IDR_TAB2_Slot3MinorHealing
  MENUITEM "Light Healing Potions",    IDR_TAB2_Slot3LightHealing
  MENUITEM "Healing Potions",         IDR_TAB2_Slot3Healing
  MENUITEM "Greater Healing Potions",  IDR_TAB2_Slot3GreaterHealing
  MENUITEM "Super Healing Potions",    IDR_TAB2_Slot3SuperHealing

  MENUITEM SEPARATOR
  MENUITEM "Minor Mana Potions",       IDR_TAB2_Slot3MinorMana
  MENUITEM "Light Mana Potions",       IDR_TAB2_Slot3LightMana
  MENUITEM "Mana Potions",            IDR_TAB2_Slot3Mana
  MENUITEM "Greater Mana Potions",    IDR_TAB2_Slot3GreaterMana
  MENUITEM "Super Mana Potions",       IDR_TAB2_Slot3SuperMana

  MENUITEM SEPARATOR
  MENUITEM "Rejuvenation Potions",    IDR_TAB2_Slot3Rejuv
  MENUITEM "Full Rejuventation Potions", IDR_TAB2_Slot3FullRejuv

END
POPUP "Column 4 with"
BEGIN
  MENUITEM "Minor Healing Potions",    IDR_TAB2_Slot4MinorHealing
  MENUITEM "Light Healing Potions",    IDR_TAB2_Slot4LightHealing
  MENUITEM "Healing Potions",         IDR_TAB2_Slot4Healing
  MENUITEM "Greater Healing Potions",  IDR_TAB2_Slot4GreaterHealing
  MENUITEM "Super Healing Potions",    IDR_TAB2_Slot4SuperHealing

  MENUITEM SEPARATOR
  MENUITEM "Minor Mana Potions",       IDR_TAB2_Slot4MinorMana
  MENUITEM "Light Mana Potions",       IDR_TAB2_Slot4LightMana
  MENUITEM "Mana Potions",            IDR_TAB2_Slot4Mana
  MENUITEM "Greater Mana Potions",    IDR_TAB2_Slot4GreaterMana

```

```

MENUITEM "Super Mana Potions",          IDR_TAB2_Slot4SuperMana

MENUITEM SEPARATOR
MENUITEM "Rejuvenation Potions",       IDR_TAB2_Slot4Rejuv
MENUITEM "Full Rejuvenation Potions",  IDR_TAB2_Slot4FullRejuv

    END
    MENUITEM "Empty Belt",              IDR_TAB2_BeltEmpty
    END
    MENUITEM "Repair All Items",        IDR_TAB2_RepairAll
    END
    POPUP "TAB3"
    BEGIN
        MENUITEM "Maximize All",        IDR_TAB3_MaximizeAll
        MENUITEM SEPARATOR
        MENUITEM "Set All Skills to 0",  IDR_TAB3_SetAll0
        MENUITEM "Set All Skills to 4",  IDR_TAB3_SetAll4
        MENUITEM "Set All Skills to 8",  IDR_TAB3_SetAll8
        MENUITEM "Set All Skills to 12", IDR_TAB3_SetAll12
        MENUITEM "Set All Skills to 16", IDR_TAB3_SetAll16
        MENUITEM "Set All Skills to 20", IDR_TAB3_SetAll20
    END
    MENUITEM "TAB4",                    65535
    POPUP "TAB5"
    BEGIN
        MENUITEM "Activate Waypoints in this Difficulty",
            IDR_TAB5_ActivateHereAll
        MENUITEM "Deactivate Waypoints in this Difficulty",
            IDR_TAB5_DeactivateHereAll

        MENUITEM SEPARATOR
        MENUITEM "Activate Waypoints in All Difficulties",
            IDR_TAB5_ActivateAllAll
        MENUITEM "Deactivate Waypoints in All Difficulties",
            IDR_TAB5_DeactivateAllAll
    END
    END
END

```

```

////////////////////////////////////
//
// Bitmap
//

```

```

IDB_PLUS          BITMAP DISCARDABLE "Resources\Bitmaps\Other\Plus.bmp"
IDB_TAB1          BITMAP DISCARDABLE "Resources\Bitmaps\Other\Tab1.bmp"
IDB_TAB2          BITMAP DISCARDABLE "Resources\Bitmaps\Other\Tab2.bmp"
IDB_TAB3          BITMAP DISCARDABLE "Resources\Bitmaps\Other\Tab3.bmp"
IDB_TAB4          BITMAP DISCARDABLE "Resources\Bitmaps\Other\Tab4.bmp"
IDB_TAB5          BITMAP DISCARDABLE "Resources\Bitmaps\Other\Tab5.bmp"
IDB_JAMELLA       BITMAP DISCARDABLE "Resources\Bitmaps\Other\Jamella.bmp"
IDB_SKILL_S30     BITMAP DISCARDABLE "Resources\Bitmaps\Skills\S30.bmp"
IDB_SKILL_S29     BITMAP DISCARDABLE "Resources\Bitmaps\Skills\S29.bmp"
IDB_SKILL_S28     BITMAP DISCARDABLE "Resources\Bitmaps\Skills\S28.bmp"
IDB_SKILL_S27     BITMAP DISCARDABLE "Resources\Bitmaps\Skills\S27.bmp"
IDB_SKILL_S26     BITMAP DISCARDABLE "Resources\Bitmaps\Skills\S26.bmp"
IDB_SKILL_S25     BITMAP DISCARDABLE "Resources\Bitmaps\Skills\S25.bmp"
IDB_SKILL_S24     BITMAP DISCARDABLE "Resources\Bitmaps\Skills\S24.bmp"
IDB_SKILL_S23     BITMAP DISCARDABLE "Resources\Bitmaps\Skills\S23.bmp"
IDB_SKILL_S22     BITMAP DISCARDABLE "Resources\Bitmaps\Skills\S22.bmp"
IDB_SKILL_S21     BITMAP DISCARDABLE "Resources\Bitmaps\Skills\S21.bmp"
IDB_SKILL_S20     BITMAP DISCARDABLE "Resources\Bitmaps\Skills\S20.bmp"
IDB_SKILL_S19     BITMAP DISCARDABLE "Resources\Bitmaps\Skills\S19.bmp"
IDB_SKILL_S18     BITMAP DISCARDABLE "Resources\Bitmaps\Skills\S18.bmp"
IDB_SKILL_S17     BITMAP DISCARDABLE "Resources\Bitmaps\Skills\S17.bmp"
IDB_SKILL_S16     BITMAP DISCARDABLE "Resources\Bitmaps\Skills\S16.bmp"
IDB_SKILL_S15     BITMAP DISCARDABLE "Resources\Bitmaps\Skills\S15.bmp"
IDB_SKILL_S14     BITMAP DISCARDABLE "Resources\Bitmaps\Skills\S14.bmp"
IDB_SKILL_S13     BITMAP DISCARDABLE "Resources\Bitmaps\Skills\S13.bmp"
IDB_SKILL_S12     BITMAP DISCARDABLE "Resources\Bitmaps\Skills\S12.bmp"
IDB_SKILL_S11     BITMAP DISCARDABLE "Resources\Bitmaps\Skills\S11.bmp"
IDB_SKILL_S10     BITMAP DISCARDABLE "Resources\Bitmaps\Skills\S10.bmp"
IDB_SKILL_S09     BITMAP DISCARDABLE "Resources\Bitmaps\Skills\S09.bmp"
IDB_SKILL_S08     BITMAP DISCARDABLE "Resources\Bitmaps\Skills\S08.bmp"
IDB_SKILL_S07     BITMAP DISCARDABLE "Resources\Bitmaps\Skills\S07.bmp"
IDB_SKILL_S06     BITMAP DISCARDABLE "Resources\Bitmaps\Skills\S06.bmp"
IDB_SKILL_S05     BITMAP DISCARDABLE "Resources\Bitmaps\Skills\S05.bmp"
IDB_SKILL_S04     BITMAP DISCARDABLE "Resources\Bitmaps\Skills\S04.bmp"
IDB_SKILL_S03     BITMAP DISCARDABLE "Resources\Bitmaps\Skills\S03.bmp"

```


IDB_SKILL_P13	BITMAP	DISCARDABLE	"Resources\Bitmaps\Skills\P13.bmp"
IDB_SKILL_P12	BITMAP	DISCARDABLE	"Resources\Bitmaps\Skills\P12.bmp"
IDB_SKILL_P11	BITMAP	DISCARDABLE	"Resources\Bitmaps\Skills\P11.bmp"
IDB_SKILL_P10	BITMAP	DISCARDABLE	"Resources\Bitmaps\Skills\P10.bmp"
IDB_SKILL_P09	BITMAP	DISCARDABLE	"Resources\Bitmaps\Skills\P09.bmp"
IDB_SKILL_P08	BITMAP	DISCARDABLE	"Resources\Bitmaps\Skills\P08.bmp"
IDB_SKILL_P07	BITMAP	DISCARDABLE	"Resources\Bitmaps\Skills\P07.bmp"
IDB_SKILL_P06	BITMAP	DISCARDABLE	"Resources\Bitmaps\Skills\P06.bmp"
IDB_SKILL_P05	BITMAP	DISCARDABLE	"Resources\Bitmaps\Skills\P05.bmp"
IDB_SKILL_P04	BITMAP	DISCARDABLE	"Resources\Bitmaps\Skills\P04.bmp"
IDB_SKILL_P03	BITMAP	DISCARDABLE	"Resources\Bitmaps\Skills\P03.bmp"
IDB_SKILL_P02	BITMAP	DISCARDABLE	"Resources\Bitmaps\Skills\P02.bmp"
IDB_SKILL_P01	BITMAP	DISCARDABLE	"Resources\Bitmaps\Skills\P01.bmp"
IDB_SKILL_B30	BITMAP	DISCARDABLE	"Resources\Bitmaps\Skills\B30.bmp"
IDB_SKILL_B29	BITMAP	DISCARDABLE	"Resources\Bitmaps\Skills\B29.bmp"
IDB_SKILL_B28	BITMAP	DISCARDABLE	"Resources\Bitmaps\Skills\B28.bmp"
IDB_SKILL_B27	BITMAP	DISCARDABLE	"Resources\Bitmaps\Skills\B27.bmp"
IDB_SKILL_B26	BITMAP	DISCARDABLE	"Resources\Bitmaps\Skills\B26.bmp"
IDB_SKILL_B25	BITMAP	DISCARDABLE	"Resources\Bitmaps\Skills\B25.bmp"
IDB_SKILL_B24	BITMAP	DISCARDABLE	"Resources\Bitmaps\Skills\B24.bmp"
IDB_SKILL_B23	BITMAP	DISCARDABLE	"Resources\Bitmaps\Skills\B23.bmp"
IDB_SKILL_B22	BITMAP	DISCARDABLE	"Resources\Bitmaps\Skills\B22.bmp"
IDB_SKILL_B21	BITMAP	DISCARDABLE	"Resources\Bitmaps\Skills\B21.bmp"
IDB_SKILL_B20	BITMAP	DISCARDABLE	"Resources\Bitmaps\Skills\B20.bmp"
IDB_SKILL_B19	BITMAP	DISCARDABLE	"Resources\Bitmaps\Skills\B19.bmp"
IDB_SKILL_B18	BITMAP	DISCARDABLE	"Resources\Bitmaps\Skills\B18.bmp"
IDB_SKILL_B17	BITMAP	DISCARDABLE	"Resources\Bitmaps\Skills\B17.bmp"
IDB_SKILL_B16	BITMAP	DISCARDABLE	"Resources\Bitmaps\Skills\B16.bmp"
IDB_SKILL_B15	BITMAP	DISCARDABLE	"Resources\Bitmaps\Skills\B15.bmp"
IDB_SKILL_B14	BITMAP	DISCARDABLE	"Resources\Bitmaps\Skills\B14.bmp"
IDB_SKILL_B13	BITMAP	DISCARDABLE	"Resources\Bitmaps\Skills\B13.bmp"
IDB_SKILL_B12	BITMAP	DISCARDABLE	"Resources\Bitmaps\Skills\B12.bmp"
IDB_SKILL_B11	BITMAP	DISCARDABLE	"Resources\Bitmaps\Skills\B11.bmp"
IDB_SKILL_B10	BITMAP	DISCARDABLE	"Resources\Bitmaps\Skills\B10.bmp"
IDB_SKILL_B09	BITMAP	DISCARDABLE	"Resources\Bitmaps\Skills\B09.bmp"
IDB_SKILL_B08	BITMAP	DISCARDABLE	"Resources\Bitmaps\Skills\B08.bmp"
IDB_SKILL_B07	BITMAP	DISCARDABLE	"Resources\Bitmaps\Skills\B07.bmp"
IDB_SKILL_B06	BITMAP	DISCARDABLE	"Resources\Bitmaps\Skills\B06.bmp"
IDB_SKILL_B05	BITMAP	DISCARDABLE	"Resources\Bitmaps\Skills\B05.bmp"
IDB_SKILL_B04	BITMAP	DISCARDABLE	"Resources\Bitmaps\Skills\B04.bmp"
IDB_SKILL_B03	BITMAP	DISCARDABLE	"Resources\Bitmaps\Skills\B03.bmp"
IDB_SKILL_B02	BITMAP	DISCARDABLE	"Resources\Bitmaps\Skills\B02.bmp"
IDB_SKILL_B01	BITMAP	DISCARDABLE	"Resources\Bitmaps\Skills\B01.bmp"
IDB_WAYPOINT_OFF	BITMAP	DISCARDABLE	"Resources\Bitmaps\Other\WaypointOff.bmp"
IDB_WAYPOINT_ON	BITMAP	DISCARDABLE	"Resources\Bitmaps\Other\WaypointOn.bmp"
IDB_QUEST11	BITMAP	DISCARDABLE	"Resources\Bitmaps\Quests\1-1.bmp"
IDB_QUEST12	BITMAP	DISCARDABLE	"Resources\Bitmaps\Quests\1-2.bmp"
IDB_QUEST13	BITMAP	DISCARDABLE	"Resources\Bitmaps\Quests\1-3.bmp"
IDB_QUEST14	BITMAP	DISCARDABLE	"Resources\Bitmaps\Quests\1-4.bmp"
IDB_QUEST15	BITMAP	DISCARDABLE	"Resources\Bitmaps\Quests\1-5.bmp"
IDB_QUEST16	BITMAP	DISCARDABLE	"Resources\Bitmaps\Quests\1-6.bmp"
IDB_QUEST21	BITMAP	DISCARDABLE	"Resources\Bitmaps\Quests\2-1.bmp"
IDB_QUEST22	BITMAP	DISCARDABLE	"Resources\Bitmaps\Quests\2-2.bmp"
IDB_QUEST23	BITMAP	DISCARDABLE	"Resources\Bitmaps\Quests\2-3.bmp"
IDB_QUEST24	BITMAP	DISCARDABLE	"Resources\Bitmaps\Quests\2-4.bmp"
IDB_QUEST25	BITMAP	DISCARDABLE	"Resources\Bitmaps\Quests\2-5.bmp"
IDB_QUEST26	BITMAP	DISCARDABLE	"Resources\Bitmaps\Quests\2-6.bmp"
IDB_QUEST31	BITMAP	DISCARDABLE	"Resources\Bitmaps\Quests\3-1.bmp"
IDB_QUEST32	BITMAP	DISCARDABLE	"Resources\Bitmaps\Quests\3-2.bmp"
IDB_QUEST33	BITMAP	DISCARDABLE	"Resources\Bitmaps\Quests\3-3.bmp"
IDB_QUEST34	BITMAP	DISCARDABLE	"Resources\Bitmaps\Quests\3-4.bmp"
IDB_QUEST35	BITMAP	DISCARDABLE	"Resources\Bitmaps\Quests\3-5.bmp"
IDB_QUEST36	BITMAP	DISCARDABLE	"Resources\Bitmaps\Quests\3-6.bmp"
IDB_QUEST41	BITMAP	DISCARDABLE	"Resources\Bitmaps\Quests\4-1.bmp"
IDB_QUEST42	BITMAP	DISCARDABLE	"Resources\Bitmaps\Quests\4-2.bmp"
IDB_QUEST43	BITMAP	DISCARDABLE	"Resources\Bitmaps\Quests\4-3.bmp"
IDB_COWLEVEL_Cube	BITMAP	DISCARDABLE	"Resources\Bitmaps\Other\CowLevelCube.bmp"
IDB_COWLEVEL_Portal	BITMAP	DISCARDABLE	"Resources\Bitmaps\Other\CowLevelPortal.bmp"
IDB_COWLEVEL_Leg	BITMAP	DISCARDABLE	"Resources\Bitmaps\Other\CowLevelLeg.bmp"
IDB_GRID_STASH	BITMAP	DISCARDABLE	"Resources\Bitmaps\Other\GridStash.bmp"
IDB_GRID_CUBE	BITMAP	DISCARDABLE	"Resources\Bitmaps\Other\GridCube.bmp"
IDB_GRID_INV	BITMAP	DISCARDABLE	"Resources\Bitmaps\Other\GridInventory.bmp"
IDB_GRID_BELT	BITMAP	DISCARDABLE	"Resources\Bitmaps\Other\GridBelt.bmp"
IDB_INV_WHOLE	BITMAP	DISCARDABLE	"Resources\Bitmaps\Other\InvWhole.bmp"
IDB_ITEM_UNKNOWN	BITMAP	DISCARDABLE	"Resources\Bitmaps\Other\ItemUnknown.bmp"
IDB_ITEM_THEGNASHER	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\thegnasher.bmp"
IDB_ITEM_DEATHSPADE	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\deathspade.bmp"
IDB_ITEM_BERSERKERSHATCHET	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\berserkerhatchet.bmp"
IDB_ITEM_TANCREDESCROWBILL	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\tancredscrowbill.bmp"

IDB_ITEM_MINDREND	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\mindrend.bmp"
IDB_ITEM_RAKESCAR	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\rakescar.bmp"
IDB_ITEM_FECHMARSAXE	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\fechmarsaxe.bmp"
IDB_ITEM_GORESHOVEL	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\goreshovel.bmp"
IDB_ITEM_THECHIEFTAN	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\thechieftan.bmp"
IDB_ITEM_BRAINHEW	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\brainhew.bmp"
IDB_ITEM_THEHUMONGOUS	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\thehumongous.bmp"
IDB_ITEM_IROSTORCH	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\irostorch.bmp"
IDB_ITEM_MAELESTROMWRATH	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\maelestromwrath.bmp"
IDB_ITEM_GRAVENSPINE	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\gravenspine.bmp"
IDB_ITEM_INFERNALTORCH	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\infernaltorch.bmp"
IDB_ITEM_UMESLAMENT	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\umeslament.bmp"
IDB_ITEM_FELLOAK	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\felloak.bmp"
IDB_ITEM_KNELLSTRIKER	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\knellstriker.bmp"
IDB_ITEM_CIVERBCUDGEL	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\civerbcudgel.bmp"
IDB_ITEM_RUSTHANDLE	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\rusthandle.bmp"
IDB_ITEM_MILABREGASROD	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\milabregasrod.bmp"
IDB_ITEM_STOUTNAIL	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\stoutnail.bmp"
IDB_ITEM_CRUSHFLANGE	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\crushflange.bmp"
IDB_ITEM_BLOODRISE	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\bloodrise.bmp"
IDB_ITEM_THEGENERALSTANDOLIGA	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\thegeneralstandoliga.bmp"
IDB_ITEM_IRONSTONE	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\ironstone.bmp"
IDB_ITEM_BONESNAP	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\bonesnap.bmp"
IDB_ITEM_STEELDRIVER	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\steeldriver.bmp"
IDB_ITEM_RIXOTSKEEN	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\rixotskeen.bmp"
IDB_ITEM_BLOODCRESCENT	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\bloodcrescent.bmp"
IDB_ITEM_KRINTIZSSKEWER	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\krintizsskewer.bmp"
IDB_ITEM_GLEAMSCYTHE	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\gleamscythe.bmp"
IDB_ITEM_AZUREWRATH	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\azurewrath.bmp"
IDB_ITEM_ISENHARTSLIGHTBRAND	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\isenhartslightbrand.bmp"
IDB_ITEM_GRISWOLDSEDGE	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\griswoldsedge.bmp"
IDB_ITEM_CLEGLAWSTOOTH	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\cleglawstooth.bmp"
IDB_ITEM_HELLPLAGUE	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\hellplague.bmp"
IDB_ITEM_DEATHSTOUCH	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\deathstouch.bmp"
IDB_ITEM_SHADOWFANG	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\shadowfang.bmp"
IDB_ITEM_SOULFLAY	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\soulflay.bmp"
IDB_ITEM_KINEMILSAWL	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\kinemilsawl.bmp"
IDB_ITEM_BLACKTONGUE	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\blacktongue.bmp"
IDB_ITEM_RIPSAW	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\ripsaw.bmp"
IDB_ITEM_THEPATRIARCH	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\thepatriarch.bmp"
IDB_ITEM_THEDIGGER	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\thedigger.bmp"
IDB_ITEM_THEJADETANDO	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\thejadetando.bmp"
IDB_ITEM_IRICESSHARD	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\iricesshard.bmp"
IDB_ITEM_THEDRAGONCHANG	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\thedragonchang.bmp"
IDB_ITEM_RAZORTINE	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\razortine.bmp"
IDB_ITEM_BLOODTHIEF	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\bloodthief.bmp"
IDB_ITEM_LANCEOFYAGGAI	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\lanceofyaggai.bmp"
IDB_ITEM_THETANNRGOREROD	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\thetannrgorerod.bmp"
IDB_ITEM_DIMOAKSHEW	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\dimoakshew.bmp"
IDB_ITEM_STEELGOAD	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\steelgoad.bmp"
IDB_ITEM_SOULHARVEST	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\soulharvest.bmp"
IDB_ITEM_THEBATTLEBRANCH	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\thebattlebranch.bmp"
IDB_ITEM_WOESTAVE	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\woestave.bmp"
IDB_ITEM_BANEASH	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\baneash.bmp"
IDB_ITEM_SERPENTLORD	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\serpentlord.bmp"
IDB_ITEM_LAZARUSSPIRE	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\lazarusspire.bmp"
IDB_ITEM_CATHANSRULE	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\cathansrule.bmp"
IDB_ITEM_THESALAMANDER	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\thesalamander.bmp"
IDB_ITEM_ARCANNASDEATHWAND	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\arcannasdeathwand.bmp"
IDB_ITEM_THEIRONLANGBONG	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\theironlangbong.bmp"
IDB_ITEM_PLUCKEYE	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\pluckeye.bmp"
IDB_ITEM_WITHERSTRING	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\witherstring.bmp"
IDB_ITEM_RIMERAVEN	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\rimeraven.bmp"
IDB_ITEM_PIERCERIB	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\piercerib.bmp"
IDB_ITEM_PULLSPITE	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\pullspite.bmp"
IDB_ITEM_VIDALASBARB	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\vidalasarb.bmp"
IDB_ITEM_WIZENDRAW	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\wizendraw.bmp"
IDB_ITEM_ARCTICHORN	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\arctichorn.bmp"
IDB_ITEM_HELLCLAP	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\hellclap.bmp"
IDB_ITEM_BLASTBARK	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\blastbark.bmp"
IDB_ITEM_LEADCROW	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\leadcrow.bmp"
IDB_ITEM_ICHORSTING	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\ichorsting.bmp"
IDB_ITEM_HELLCAST	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\hellcast.bmp"
IDB_ITEM_DOOMSPITTLE	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\doomspittle.bmp"
IDB_ITEM_RANCIDGAS	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\rancidgas.bmp"
IDB_ITEM_OIL	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\oil.bmp"
IDB_ITEM_CHOKINGGAS	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\chokinggas.bmp"
IDB_ITEM_EXPLODING	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\exploding.bmp"
IDB_ITEM_STRANGLINGGAS	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\stranglinggas.bmp"

IDB_ITEM_FULM	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\fulm.bmp"
IDB_ITEM_DECOYDIBINN	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\decoygidbinn.bmp"
IDB_ITEM_THEGIDBINN	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\thegidbinn.bmp"
IDB_ITEM_WIRTSLEG	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\wirtsleg.bmp"
IDB_ITEM_HORADRICALJUS	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\horadricmalus.bmp"
IDB_ITEM_HELLFORGEHAMMER	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\hellforgehammer.bmp"
IDB_ITEM_HORADRICSTAFF	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\horadricstaff.bmp"
IDB_ITEM_SHAFTOFHORADRICSTAFF	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\shaftofhoradricstaff.bmp"
IDB_ITEM_HANDAXE	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\handaxe.bmp"
IDB_ITEM_AXE	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\axe.bmp"
IDB_ITEM_DOUBLEAXE	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\doubleaxe.bmp"
IDB_ITEM_MILITARYPICK	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\militarypick.bmp"
IDB_ITEM_WARAXE	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\waraxe.bmp"
IDB_ITEM_LARGEAXE	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\largeaxe.bmp"
IDB_ITEM_BROADAXE	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\broadaxe.bmp"
IDB_ITEM_BATTLEAXE	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\battleaxe.bmp"
IDB_ITEM_GREATAXE	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\greataxe.bmp"
IDB_ITEM_GIANTAXE	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\giantaxe.bmp"
IDB_ITEM_WAND	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\wand.bmp"
IDB_ITEM_YEWAND	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\yewwand.bmp"
IDB_ITEM_BONEWAND	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\bonewand.bmp"
IDB_ITEM_GRIMWAND	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\grimwand.bmp"
IDB_ITEM_CLUB	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\club.bmp"
IDB_ITEM_SCEPTER	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\scepter.bmp"
IDB_ITEM_GRANDSCEPTER	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\grandscepter.bmp"
IDB_ITEM_WARSCEPTER	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\warscepter.bmp"
IDB_ITEM_SPIKEDCLUB	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\spikedclub.bmp"
IDB_ITEM_MACE	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\mace.bmp"
IDB_ITEM_MORNINGSTAR	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\morningstar.bmp"
IDB_ITEM_FLAIL	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\flail.bmp"
IDB_ITEM_WARHAMMER	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\warhammer.bmp"
IDB_ITEM_MAUL	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\maul.bmp"
IDB_ITEM_GREATMAUL	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\greatmaul.bmp"
IDB_ITEM_SHORTSWORD	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\shortsword.bmp"
IDB_ITEM_SCIMITAR	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\scimitar.bmp"
IDB_ITEM_SABRE	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\sabre.bmp"
IDB_ITEM_FALCHION	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\falchion.bmp"
IDB_ITEM_CRYSTALSWORD	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\crystalsword.bmp"
IDB_ITEM_BROADSWORD	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\broadsword.bmp"
IDB_ITEM_LONGSWORD	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\longsword.bmp"
IDB_ITEM_WARSWORD	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\warsword.bmp"
IDB_ITEM_2HSWORD	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\2hsword.bmp"
IDB_ITEM_CLAYMORE	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\claymore.bmp"
IDB_ITEM_GIANTSWORD	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\giantsword.bmp"
IDB_ITEM_BASTARDSWORD	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\bastardsword.bmp"
IDB_ITEM_FLAMBERGE	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\flamberge.bmp"
IDB_ITEM_GREATSWORD	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\greatsword.bmp"
IDB_ITEM_DAGGER	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\dagger.bmp"
IDB_ITEM_DIRK	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\dirk.bmp"
IDB_ITEM_KRIS	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\kris.bmp"
IDB_ITEM_BLADE	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\blade.bmp"
IDB_ITEM_THROWINGKNIFE	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\throwingknife.bmp"
IDB_ITEM_THROWINGAXE	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\throwingaxe.bmp"
IDB_ITEM_BALANCEDKNIFE	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\balancedknife.bmp"
IDB_ITEM_BALANCEDAXE	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\balancedaxe.bmp"
IDB_ITEM_JAVELIN	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\javelin.bmp"
IDB_ITEM_PILUM	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\pilum.bmp"
IDB_ITEM_SHORTSPEAR	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\shortspear.bmp"
IDB_ITEM_GLAIVE	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\glaiive.bmp"
IDB_ITEM_THROWINGSPEAR	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\throwingspear.bmp"
IDB_ITEM_SPEAR	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\spear.bmp"
IDB_ITEM_TRIDENT	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\trident.bmp"
IDB_ITEM_BRANDISTOCK	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\brandistock.bmp"
IDB_ITEM_SPETUM	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\spetum.bmp"
IDB_ITEM_PIKE	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\pike.bmp"
IDB_ITEM_BARDICHE	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\bardiche.bmp"
IDB_ITEM_VOULGE	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\voulge.bmp"
IDB_ITEM_SCYTHE	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\scythe.bmp"
IDB_ITEM_POLEAXE	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\poleaxe.bmp"
IDB_ITEM_HALBERD	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\halberd.bmp"
IDB_ITEM_WARSCYTHE	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\warscythe.bmp"
IDB_ITEM_SHORTSTAFF	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\shortstaff.bmp"
IDB_ITEM_LONGSTAFF	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\longstaff.bmp"
IDB_ITEM_GNARLEDSTAFF	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\gnarledstaff.bmp"
IDB_ITEM_BATTLESTAFF	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\battlestaff.bmp"
IDB_ITEM_WARSTAFF	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\warstaff.bmp"
IDB_ITEM_SHORTBOW	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\shortbow.bmp"
IDB_ITEM_HUNTERSBOB	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\huntersbow.bmp"
IDB_ITEM_LONGBOW	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\longbow.bmp"

IDB_ITEM_COMPOSITEBOW	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\compositebow.bmp"
IDB_ITEM_SHORTBATTLEBOW	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\shortbattlebow.bmp"
IDB_ITEM_LONGBATTLEBOW	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\longbattlebow.bmp"
IDB_ITEM_SHORTWARBOW	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\shortwarbow.bmp"
IDB_ITEM_LONGWARBOW	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\longwarbow.bmp"
IDB_ITEM_LIGHTCROSSBOW	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\lightcrossbow.bmp"
IDB_ITEM_CROSSBOW	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\crossbow.bmp"
IDB_ITEM_HEAVYCROSSBOW	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\heavycrossbow.bmp"
IDB_ITEM_REPEATINCROSSBOW	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\repeatingcrossbow.bmp"
IDB_ITEM_KHALIMSFLAIL	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\khalimsflail.bmp"
IDB_ITEM_KHALIMSWILL	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\khalimswill.bmp"
IDB_ITEM_INFERNALCRANIUM	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\infernalcranium.bmp"
IDB_ITEM_WARBONET	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\warbonet.bmp"
IDB_ITEM_ARCANNASHEAD	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\arcannashead.bmp"
IDB_ITEM_TARNHELM	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\tarnhelm.bmp"
IDB_ITEM_BERSERKERSHEADGEAR	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\berserkersheadgear.bmp"
IDB_ITEM_COIFOFGORY	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\coifofglory.bmp"
IDB_ITEM_ISENHARTSHORNS	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\isenhartshorns.bmp"
IDB_ITEM_DUSKDEEP	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\darkdeep.bmp"
IDB_ITEM_SIGONSVISOR	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\sigonsvisor.bmp"
IDB_ITEM_HOWLITUSK	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\howltusk.bmp"
IDB_ITEM_IRATHASCOIL	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\irathascoil.bmp"
IDB_ITEM_MILABREGASDIADM	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\milabregasdiadem.bmp"
IDB_ITEM_UNDEADCROWN	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\undeadcrown.bmp"
IDB_ITEM_ARCTICFURS	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\arcticfurs.bmp"
IDB_ITEM_GREYFORM	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\greyform.bmp"
IDB_ITEM VIDALASAMBUSH	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\vidalasangambush.bmp"
IDB_ITEM_BLINKBATSFORM	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\blinkbatsform.bmp"
IDB_ITEM_THECENTURION	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\thecenturion.bmp"
IDB_ITEM_TWITCHTHROE	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\twitchthroes.bmp"
IDB_ITEM_DARKGLOW	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\darkglow.bmp"
IDB_ITEM_HAWKMAIL	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\hawkmail.bmp"
IDB_ITEM_CATHANSMESH	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\cathansmesh.bmp"
IDB_ITEM_SPARKLINGMAIL	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\sparklingmail.bmp"
IDB_ITEM_ISENHARTSCASE	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\isenhartscase.bmp"
IDB_ITEM_VENOMSWARD	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\venomsward.bmp"
IDB_ITEM_BERSERKERSHAUBERK	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\berserkershauberk.bmp"
IDB_ITEM_ICEBLINK	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\iceblink.bmp"
IDB_ITEM_BONFLESH	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\bonflesh.bmp"
IDB_ITEM_ROCKFLEECE	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\rockfleece.bmp"
IDB_ITEM_SIGONSSHELTER	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\sigonsshelter.bmp"
IDB_ITEM_RATTLECAGE	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\rattlecage.bmp"
IDB_ITEM_TANCREDDSPINE	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\tancredsspines.bmp"
IDB_ITEM_GOLDSKIN	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\goldskin.bmp"
IDB_ITEM_MILABREGASROBE	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\milabregasrobe.bmp"
IDB_ITEM_VICTORSSILK	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\victimssilk.bmp"
IDB_ITEM_ARCANNASFLESH	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\arcannasflesh.bmp"
IDB_ITEM_HEAVENLYGARB	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\heavenlygarb.bmp"
IDB_ITEM_HSARUSIRONFIST	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\hsarusironfist.bmp"
IDB_ITEM_PELTALUNATA	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\peltalunata.bmp"
IDB_ITEM_CLEGLAWSCLAW	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\cleglawsclaws.bmp"
IDB_ITEM_UMBRALEDISK	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\umbraledisk.bmp"
IDB_ITEM_STORMGUILD	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\stormguild.bmp"
IDB_ITEM_MILABREGASORB	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\milabregasorb.bmp"
IDB_ITEM_STEELCLASH	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\steelclash.bmp"
IDB_ITEM_SIGONSGUARD	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\sigonsguard.bmp"
IDB_ITEM_BVERRITKEEP	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\bverritkeep.bmp"
IDB_ITEM_ISENHARTSPARRY	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\isenhartsparry.bmp"
IDB_ITEM_THEWARD	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\theward.bmp"
IDB_ITEM_DEATHSHAND	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\deathshand.bmp"
IDB_ITEM_THEHANDOFBROC	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\thehandofbroc.bmp"
IDB_ITEM_BLOODFIST	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\bloodfist.bmp"
IDB_ITEM_CLEGLAWSPINCERS	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\cleglawspincers.bmp"
IDB_ITEM_CHANCEGUARDS	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\chanceguards.bmp"
IDB_ITEM_IRATHASCUFF	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\irathascuff.bmp"
IDB_ITEM_ARCTICMITTS	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\arcticmitts.bmp"
IDB_ITEM_MAGEFIST	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\magefist.bmp"
IDB_ITEM_SIGONSGAUNTLETS	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\sigonsgauntlets.bmp"
IDB_ITEM_FROSTBURN	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\frostburn.bmp"
IDB_ITEM_TANCREDSHOBNAILS	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\tancredshobnails.bmp"
IDB_ITEM_HOTSPUR	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\hotspur.bmp"
IDB_ITEM_GOREFOOT	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\gorefoot.bmp"
IDB_ITEM_HSARUSIRONHEEL	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\hsarusironheel.bmp"
IDB_ITEM_TREADSOFCYTHON	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\treadsofcythos.bmp"
IDB_ITEM VIDALASFETLOCK	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\vidalASFetlock.bmp"
IDB_ITEM_GOBLINTOE	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\goblintoes.bmp"
IDB_ITEM_SIGONSGREAVES	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\sigonsgreaves.bmp"
IDB_ITEM_TEARHAUNCH	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\tearhaunch.bmp"
IDB_ITEM_DEATHSGUARD	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\deathsguard.bmp"

IDB_ITEM_LENYSKORD	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\lenyskord.bmp"
IDB_ITEM_ARCTICBINDING	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\arcticbinding.bmp"
IDB_ITEM_SNAKECORD	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\snakecord.bmp"
IDB_ITEM_HSARUSIRONSTAY	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\hsarusironstay.bmp"
IDB_ITEM_NIGHTSMOKE	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\nightsmoke.bmp"
IDB_ITEM_IRATHASCORD	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\irathascord.bmp"
IDB_ITEM_INFERNALBUCKLE	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\infernalbuckle.bmp"
IDB_ITEM_GOLDWRAP	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\goldwrap.bmp"
IDB_ITEM_SIGONSWRAP	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\sigonswrap.bmp"
IDB_ITEM_BLADEBUCKLE	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\bladebuckle.bmp"
IDB_ITEM_TANCREDDSSKULL	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\tancredsskull.bmp"
IDB_ITEM_WORMSKULL	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\wormskull.bmp"
IDB_ITEM_WALLOFTHEYELESS	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\walloftheeyeless.bmp"
IDB_ITEM_SWORDBACKHOLD	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\swordbackhold.bmp"
IDB_ITEM_CAP	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\cap.bmp"
IDB_ITEM_SKULLCAP	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\skullcap.bmp"
IDB_ITEM_HELM	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\helm.bmp"
IDB_ITEM_FULLHELM	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\fullhelm.bmp"
IDB_ITEM_GREATHELM	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\greathelm.bmp"
IDB_ITEM_CROWN	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\crown.bmp"
IDB_ITEM_MASK	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\mask.bmp"
IDB_ITEM_QUILTED	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\quilted.bmp"
IDB_ITEM_LEATHER	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\leather.bmp"
IDB_ITEM_HARDLEATHER	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\hardleather.bmp"
IDB_ITEM_STUDDLEATHER	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\studdedleather.bmp"
IDB_ITEM_RINGMAIL	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\ringmail.bmp"
IDB_ITEM_SCALEMAIL	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\scalemail.bmp"
IDB_ITEM_CHAINMAIL	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\chainmail.bmp"
IDB_ITEM_BREASTPLATE	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\breastplate.bmp"
IDB_ITEM_SPLINTMAIL	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\splintmail.bmp"
IDB_ITEM_PLATEMAIL	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\platemail.bmp"
IDB_ITEM_FIELDPLATE	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\fieldplate.bmp"
IDB_ITEM_GOTHICPLATE	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\gothicplate.bmp"
IDB_ITEM_FULLPLATE	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\fullplate.bmp"
IDB_ITEM_ANCIENTARMOR	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\ancientarmor.bmp"
IDB_ITEM_LIGHTPLATE	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\lightplate.bmp"
IDB_ITEM_BUCKLER	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\buckler.bmp"
IDB_ITEM_SMALLSHIELD	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\smallshield.bmp"
IDB_ITEM_LARGESHIELD	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\largeshield.bmp"
IDB_ITEM_KITESHIELD	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\kiteshield.bmp"
IDB_ITEM_TOWERSHIELD	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\towershield.bmp"
IDB_ITEM_GOTHICSHIELD	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\gothicshield.bmp"
IDB_ITEM_LEATHERGLOVES	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\leathergloves.bmp"
IDB_ITEM_HEAVYGLOVES	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\heavygloves.bmp"
IDB_ITEM_CHAINGLOVES	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\chaingloves.bmp"
IDB_ITEM_LIGHTGAUNTLETS	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\lightgauntlets.bmp"
IDB_ITEM_GAUNTLETS	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\gauntlets.bmp"
IDB_ITEM_LEATHERBOOTS	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\leatherboots.bmp"
IDB_ITEM_HEAVYBOOTS	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\heavyboots.bmp"
IDB_ITEM_CHAINBOOTS	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\chainboots.bmp"
IDB_ITEM_LIGHTPLATEBOOTS	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\lightplateboots.bmp"
IDB_ITEM_PLATEBOOTS	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\plateboots.bmp"
IDB_ITEM_SASH	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\sash.bmp"
IDB_ITEM_LIGHTBELT	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\lightbelt.bmp"
IDB_ITEM_BELT	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\belt.bmp"
IDB_ITEM_HEAVYBELT	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\heavybelt.bmp"
IDB_ITEM_GIRDLE	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\girdle.bmp"
IDB_ITEM_BONEHELM	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\bonehelm.bmp"
IDB_ITEM_BONESHIELD	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\boneshield.bmp"
IDB_ITEM_SPIKEDSHIELD	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\spikedshield.bmp"
IDB_ITEM_ELIXEROFVITALITY	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\elixerofvitality.bmp"
IDB_ITEM_HPO	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\hpo.bmp"
IDB_ITEM_MPO	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\mpo.bmp"
IDB_ITEM_HPF	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\hpf.bmp"
IDB_ITEM_MPF	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\mpf.bmp"
IDB_ITEM_STAMINA	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\stamina.bmp"
IDB_ITEM_ANTIDOTE	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\antidote.bmp"
IDB_ITEM_REJUV	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\rejuv.bmp"
IDB_ITEM_FULLREJUV	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\fullrejuv.bmp"
IDB_ITEM_THAWING	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\thawing.bmp"
IDB_ITEM_TOMEBLUE	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\togetherblue.bmp"
IDB_ITEM_TOMERED	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\togetherred.bmp"
IDB_ITEM_TOPOPHORADRICSTAFF	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\topophoradricstaff.bmp"
IDB_ITEM_GOLD	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\gold.bmp"
IDB_ITEM_SCROLLOFINIFUSS	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\scrollofinifuss.bmp"
IDB_ITEM_ARROWS	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\arrows.bmp"
IDB_ITEM_TORCH	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\torch.bmp"
IDB_ITEM_BOLTS	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\bolts.bmp"
IDB_ITEM_SCROLLBLUE	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\scrollblue.bmp"

IDB_ITEM_SCROLLRED	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\scrollred.bmp"
IDB_ITEM_SKELETONJAW	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\skeletonjaw.bmp"
IDB_ITEM_SKELETONHRN	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\skeletonhrn.bmp"
IDB_ITEM_SKELENTONTAL	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\skeletontal.bmp"
IDB_ITEM_SKELETONFLG	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\skeletonflg.bmp"
IDB_ITEM_SKELETONFNG	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\skeletonfng.bmp"
IDB_ITEM_SKELETONQLL	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\skeletonqll.bmp"
IDB_ITEM_SKELETONSCZ	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\skeletonscz.bmp"
IDB_ITEM_SKELETONSOL	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\skeletonsol.bmp"
IDB_ITEM_KEY	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\key.bmp"
IDB_ITEM_BLACKTOWERKEY	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\blacktowerkey.bmp"
IDB_ITEM_POTIONOFLIFE	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\potionoflife.bmp"
IDB_ITEM_JADEFIGURINE	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\jadefigurine.bmp"
IDB_ITEM_GOLDENBIRD	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\goldenbird.bmp"
IDB_ITEM_LAMESEUSTOME	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\lameseustome.bmp"
IDB_ITEM_HORADRICCUBE	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\horadriccube.bmp"
IDB_ITEM_HORADRICSCROLL	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\horadricscroll.bmp"
IDB_ITEM_MOPHISSOULSTONE	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\mophistossoulstone.bmp"
IDB_ITEM_BOOKOFSKILL	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\bookofskill.bmp"
IDB_ITEM_EYE	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\eye.bmp"
IDB_ITEM_HEART	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\heart.bmp"
IDB_ITEM_BRAIN	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\brain.bmp"
IDB_ITEM_EAR	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\ear.bmp"
IDB_ITEM_CHIPPEDAMETHYST	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\chippedamethyst.bmp"
IDB_ITEM_FLAWEDAMETHYST	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\flawedamethyst.bmp"
IDB_ITEM_AMETHYST	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\amethyst.bmp"
IDB_ITEM_FLAWLESSAMETHYST	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\flawlessamethyst.bmp"
IDB_ITEM_PERFECTAMETHYST	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\perfectamethyst.bmp"
IDB_ITEM_CHIPPEDTOPAZ	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\chippedtopaz.bmp"
IDB_ITEM_FLAWEDTOPAZ	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\flawedtopaz.bmp"
IDB_ITEM_TOPAZ	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\topaz.bmp"
IDB_ITEM_FLAWLESSTOPAZ	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\flawlesstopaz.bmp"
IDB_ITEM_PERFECTTOPAZ	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\perfecttopaz.bmp"
IDB_ITEM_CHIPPEDSAPPHIRE	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\chippedsapphire.bmp"
IDB_ITEM_FLAWEDSAPPHIRE	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\flawedsapphire.bmp"
IDB_ITEM_SAPPHIRE	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\sapphire.bmp"
IDB_ITEM_FLAWLESSSAPPHIRE	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\flawlesssapphire.bmp"
IDB_ITEM_PERFECTSAPPHIRE	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\perfectsapphire.bmp"
IDB_ITEM_CHIPPEDEMERALD	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\chippedemerald.bmp"
IDB_ITEM_FLAWEDEMERALD	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\flawedemerald.bmp"
IDB_ITEM_EMERALD	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\emerald.bmp"
IDB_ITEM_FLAWLESSEMERALD	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\flawlessemerald.bmp"
IDB_ITEM_PERFECTEMERALD	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\perfectemerald.bmp"
IDB_ITEM_CHIPPEDRUBY	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\chippedruby.bmp"
IDB_ITEM_FLAWEDRUBY	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\flawedruby.bmp"
IDB_ITEM_RUBY	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\ruby.bmp"
IDB_ITEM_FLAWLESSRUBY	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\flawlessruby.bmp"
IDB_ITEM_PERFECTRUBY	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\perfectruby.bmp"
IDB_ITEM_CHIPPEDIAMOND	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\chippeddiamond.bmp"
IDB_ITEM_FLAWEDIAMOND	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\flaweddiamond.bmp"
IDB_ITEM_DIAMOND	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\diamond.bmp"
IDB_ITEM_FLAWLESSDIAMOND	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\flawlessdiamond.bmp"
IDB_ITEM_PERFECTDIAMOND	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\perfectdiamond.bmp"
IDB_ITEM_MINORHEALING	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\minorhealing.bmp"
IDB_ITEM_LIGHTHEALING	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\lighthealing.bmp"
IDB_ITEM_HEALING	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\healing.bmp"
IDB_ITEM_GREATERHEALING	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\greaterhealing.bmp"
IDB_ITEM_SUPERHEALING	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\superhealing.bmp"
IDB_ITEM_MINORMANA	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\minormana.bmp"
IDB_ITEM_LIGHTMANA	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\lightmana.bmp"
IDB_ITEM_MANA	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\mana.bmp"
IDB_ITEM_GREATERMANA	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\greatermana.bmp"
IDB_ITEM_SUPERMANA	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\supermana.bmp"
IDB_ITEM_CHIPPEDSKULL	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\chippedskull.bmp"
IDB_ITEM_FLAWEDSKULL	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\flawedskull.bmp"
IDB_ITEM_SKULL	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\skull.bmp"
IDB_ITEM_FLAWLESSSKULL	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\flawlessskull.bmp"
IDB_ITEM_PERFECTSKULL	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\perfectskull.bmp"
IDB_NOTPLACEABLE	BITMAP	DISCARDABLE	"Resources\Bitmaps\Other\NotPlaceable.bmp"
IDB_ITEM_RING5	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\ring5.bmp"
IDB_ITEM_AMULET2	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\amu2.bmp"
IDB_ITEM_AMULET3	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\amu3.bmp"
IDB_ITEM_RING1	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\ring1.bmp"
IDB_ITEM_RING2	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\ring2.bmp"
IDB_ITEM_RING3	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\ring3.bmp"
IDB_ITEM_RING4	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\ring4.bmp"
IDB_ITEM_AMULET1	BITMAP	DISCARDABLE	"Resources\ItemBitmaps\amu1.bmp"
IDB_JAMELLASMALL	BITMAP	DISCARDABLE	"Resources\Bitmaps\Other\JamellaSmall.bmp"
IDB_WEBLINK	BITMAP	DISCARDABLE	"Resources\Bitmaps\Other\WebLink.bmp"

```
IDB_PLUS16          BITMAP DISCARDABLE "Resources\Bitmaps\Other\Plus16.bmp"
IDB_GRID_2x4        BITMAP DISCARDABLE "Resources\Bitmaps\Other\grid_2x4.bmp"
IDB_GRID_2x4_Black  BITMAP DISCARDABLE "Resources\Bitmaps\Other\grid_2x4_black.bmp"
```

```
////////////////////////////////////
//
// Icon
//
```

```
// Icon with lowest ID value placed first to ensure application icon
// remains consistent on all systems.
IDI_ICON            ICON DISCARDABLE "Resources\Icons\Icon.ico"
IDI_ITEMICON        ICON DISCARDABLE "Resources\Icons\ItemIcon2.ico"
IDI_CHELP           ICON DISCARDABLE "Resources\Icons\Chelp.ico"
IDI_D2SICON         ICON DISCARDABLE "resources\icons\d2sicon.ico"
```

```
////////////////////////////////////
//
// Accelerator
//
```

```
IDR_MAIN ACCELERATORS DISCARDABLE
BEGIN
    "J",          IDR_EOPTIONS,          VIRTKEY, CONTROL, ALT, NOINVERT
    "N",          IDR_NEW,              VIRTKEY, CONTROL, NOINVERT
    "O",          IDR_OPEN,            VIRTKEY, CONTROL, NOINVERT
    "R",          IDR_RELOAD,          VIRTKEY, CONTROL, NOINVERT
    "S",          IDR_SAVE,            VIRTKEY, CONTROL, NOINVERT
END
```

```
////////////////////////////////////
//
// Cursor
//
```

```
IDC_CUR_MOVE        CURSOR DISCARDABLE "Resources\Cursors\Move.cur"
IDC_CUR_CROSS       CURSOR DISCARDABLE "Resources\Cursors\cross.cur"
IDC_CUR_ADD         CURSOR DISCARDABLE "Resources\Cursors\cur_add.cur"
IDC_CUR_MOVECOPY    CURSOR DISCARDABLE "Resources\Cursors\CurMoveCopy.cur"
IDC_CUR_NO          CURSOR DISCARDABLE "resources\cursors\cur_no.cur"
```

```
////////////////////////////////////
//
// WAVE
//
```

```
IDR_WAVE_JamellaSound WAVE DISCARDABLE "Resources\Waves\JamellaSound.wav"
```

```
////////////////////////////////////
//
// D2S
//
```

```
IDN_Amazon          D2S DISCARDABLE "Resources\Chars\Novices\Amazon.d2s"
IDN_Barbarian       D2S DISCARDABLE "Resources\Chars\Novices\Barbarian.d2s"
IDN_Necromancer     D2S DISCARDABLE "Resources\Chars\Novices\Necromancer.d2s"
IDN_Paladin         D2S DISCARDABLE "Resources\Chars\Novices\Paladin.d2s"
IDN_Sorceress       D2S DISCARDABLE "Resources\Chars\Novices\Sorceress.d2s"
```

```
////////////////////////////////////
//
// CHELP
//
```

```
IDH_TAB2Magic       CHELP DISCARDABLE "Resources\CHelp\TAB2Magic.rtf"
IDH_TAB2Rare        CHELP DISCARDABLE "Resources\CHelp\TAB2Rare.rtf"
IDH_TAB2S           CHELP DISCARDABLE "Resources\CHelp\SearchBox.rtf"
```

```
////////////////////////////////////
//
// String Table
//
```

```
STRINGTABLE DISCARDABLE
BEGIN
    IDS_SKILL_A01          "Creates an arrow composed entirely from Mana. Damage starts at the same level as a normal a
rrow and increases with higher levels of training."
```

```

IDS_SKILL_A02 "Enchants an arrow with the additional damage of fire."
IDS_SKILL_A03 "Illuminates monsters and decreases their ability to defend themselves."
IDS_SKILL_A04 "Grants a chance to do double physical damage with ranged and thrust attacks."
END

STRINGTABLE DISCARDABLE
BEGIN
  IDS_SKILL_A05 "Multiple attacks within the time span of a normal attack, each jab a bit less powerful than
the last."
  IDS_SKILL_A06 "Enchants an arrow, adding cold damage and slowing your enemy."
  IDS_SKILL_A07 "Enchants an arrow, adding cold damage and slowing your enemy."
  IDS_SKILL_A08 "Grants a chance to move out of the way of a melee attack while standing still."
  IDS_SKILL_A09 "Adds lightning damage and increases normal damage to thrusting attacks."
  IDS_SKILL_A10 "Thrown javelin causes poison damage and leaves a trail of poison clouds."
  IDS_SKILL_A11 "Adds fire damage to normal arrows and explodes on impact."
  IDS_SKILL_A12 "Slows the missiles of nearby enemies."
  IDS_SKILL_A13 "Grants a chance to move out of the way of a missile attack while standing still."
  IDS_SKILL_A14 "A more powerful attack with an increased chance the weapon will lose durability."
  IDS_SKILL_A15 "Leaves a trail of lightning and does lightning damage."
  IDS_SKILL_A16 "Arrows have additional cold damage and momentarily freeze the target."
  IDS_SKILL_A17 "Imbues an arrow with the ability to seek its nearest target."
  IDS_SKILL_A18 "Additional chance to hit for ranged attacks."
  IDS_SKILL_A19 "A lightning attack that releases charged bolts."
  IDS_SKILL_A20 "Similar to Poison Javelin with an additional cloud of expanding poison at the point of impa
ct."
END

STRINGTABLE DISCARDABLE
BEGIN
  IDS_SKILL_A21 "Enchants an arrow that does fire damage, and explodes into a patch of fire on the ground. C
reatures passing through the flames take additional damage."
  IDS_SKILL_A22 "Fires a volley of arrows at multiple nearby targets."
  IDS_SKILL_A23 "Creates a duplicate image to distract enemies."
  IDS_SKILL_A24 "Grants a chance to escape any attack while moving."
  IDS_SKILL_A25 "Rapidly strikes several close targets."
  IDS_SKILL_A26 "Enchants an arrow to deliver cold damage that freezes any monsters near the point of impact
."
  IDS_SKILL_A27 "Summons a powerful Valkyrie warrior to fight by your side."
  IDS_SKILL_A28 "A chance that your missile will continue through its victim."
  IDS_SKILL_A29 "Does lightning damage and releases chain lightning from target."
  IDS_SKILL_A30 "Creates a powerful lightning bolt that releases multiple lightning bolts from target."
END

STRINGTABLE DISCARDABLE
BEGIN
  IDS_SKILL_S01 "Creates a bolt of fire."
  IDS_SKILL_S02 "Increases your Mana recovery rate."
  IDS_SKILL_S03 "Fires multiple, jumping bolts of electricity that seek their targets."
  IDS_SKILL_S04 "Shoots a bolt of ice that damages and slows your victim."
  IDS_SKILL_S05 "Gives a defense bonus and freezes any melee attacker that hits you."
  IDS_SKILL_S06 "A spout of flame that burn your enemies."
  IDS_SKILL_S07 "Every enemy in a radius around you lose 25% of their current health."
  IDS_SKILL_S08 "Allows you to pick up items, trigger objects, and attack others at a distance."
  IDS_SKILL_S09 "Creates an expanding ring of ice and frost that damages and slows enemies."
  IDS_SKILL_S10 "Creates a bolt of ice that completely freezes a target."
  IDS_SKILL_S11 "Leave a wall of fire in your footsteps."
  IDS_SKILL_S12 "Creates a ball of fire that explodes on impact."
  IDS_SKILL_S13 "Creates an expanding ring of electricity that does massive damage."
  IDS_SKILL_S14 "Casts a bolt of lightning."
  IDS_SKILL_S15 "Defense bonus, plus any melee attacker that hits you takes damage and is slowed."
  IDS_SKILL_S16 "Creates a wall of fire."
END

STRINGTABLE DISCARDABLE
BEGIN
  IDS_SKILL_S17 "Temporarily adds Fire damage to a weapon."
  IDS_SKILL_S18 "Casts a lightning bolt that jumps through multiple targets."
  IDS_SKILL_S19 "Instantly transports you between two points."
  IDS_SKILL_S20 "A shard of ice that inflicts massive cold damage and explodes to freeze nearby enemies."
  IDS_SKILL_S21 "Draws down a meteor from the heavens to smash your enemies."
  IDS_SKILL_S22 "Summons a thunderstorm that periodically blasts a nearby enemy with a bolt of lightning."
  IDS_SKILL_S23 "Absorbs magical and some physical damage to Mana instead of Life."
  IDS_SKILL_S24 "Summons an ice storm to rain cold death onto your enemies."
  IDS_SKILL_S25 "Confers a defense bonus and launches an ice bolt against ranged attackers."
  IDS_SKILL_S26 "Increases the damage done by your fire spells."
  IDS_SKILL_S27 "Creates a multi-headed beast that attacks your enemies with bolts of fire."
  IDS_SKILL_S28 "Reduces the Mana cost of lightning spells."
  IDS_SKILL_S29 "A pulsating orb that shreds an area with ice bolts."
  IDS_SKILL_S30 "Pierces the cold resistance of your enemies."

```

END

STRINGTABLE DISCARDABLE

BEGIN

IDS_SKILL_N01	"Increases the amount of damage received."
IDS_SKILL_N02	"Summons multiple projectiles that damage enemies."
IDS_SKILL_N03	"A protective shield that absorbs damage."
IDS_SKILL_N05	"Raises one skeleton per skill level to fight for you."
IDS_SKILL_N04	"Improves the quality of your raised skeletons, magi, and revived."
IDS_SKILL_N06	"Decreases radius of awareness."
IDS_SKILL_N07	"Decreases the damage the target can do."
IDS_SKILL_N08	"Adds poison damage to a dagger."
IDS_SKILL_N09	"The targeted corpse explodes, damaging all nearby enemies."
IDS_SKILL_N10	"Raises a Golem from the earth to fight for you."
IDS_SKILL_N11	"Damage dealt is damage received."
IDS_SKILL_N12	"Cursed monsters run in fear."

END

STRINGTABLE DISCARDABLE

BEGIN

IDS_SKILL_N13	"Creates a barrier of bone."
IDS_SKILL_N14	"Enhances speed and life of Golems."
IDS_SKILL_N15	"Raises a Skeletal Mage that fights for you with an elemental attack."
IDS_SKILL_N16	"Cursed monsters attack randomly."
IDS_SKILL_N17	"Attacking a cursed soul gives you health."
IDS_SKILL_N18	"Releases a cloud of poisonous gas from a corpse."
IDS_SKILL_N19	"Summons a magical missile of bone."
IDS_SKILL_N20	"Summons a Golem that is linked to the caster's health."
IDS_SKILL_N21	"Causes other monsters to target your enemy."
IDS_SKILL_N22	"Slows speed of the cursed."
IDS_SKILL_N23	"Summons a ring of bone to surround a target."
IDS_SKILL_N24	"Raises elemental resistances of your Minions."
IDS_SKILL_N25	"Summon a Golem from a metal item. The golem gains properties of the item."
IDS_SKILL_N26	"Elemental attacks do more damage to the cursed monster."
IDS_SKILL_N27	"A ring of poison explodes from the Necromancer."
IDS_SKILL_N28	"Spirit tracks down a target, or finds one of its own."

END

STRINGTABLE DISCARDABLE

BEGIN

IDS_SKILL_N29	"A Golem of fire that uses fire damage to heal itself."
IDS_SKILL_N30	"Resurrects a monster to fight for you."

END

STRINGTABLE DISCARDABLE

BEGIN

IDS_SKILL_P01	"Increased damage at the cost of health."
IDS_SKILL_P02	"Bolt of energy that damages undead, or heals friendly units."
IDS_SKILL_P03	"Increases damage dealt by party members."
IDS_SKILL_P04	"Heals all party members."
IDS_SKILL_P05	"Increases the Fire resistance of all party members."
IDS_SKILL_P06	"Shield bash that does damage and knock back."
IDS_SKILL_P07	"Periodically does Fire damage to nearby enemies."
IDS_SKILL_P08	"Enemies take damage when they cause melee damage to party members."

END

STRINGTABLE DISCARDABLE

BEGIN

IDS_SKILL_P09	"Boosts the Defense of all party members."
IDS_SKILL_P10	"Increases the Cold resistance of all party members"
IDS_SKILL_P11	"Quickly attacks multiple adjacent enemies."
IDS_SKILL_P12	"Closes the distance with an enemy, delivering a bash on contact."
IDS_SKILL_P13	"Increases Attack Rating."
IDS_SKILL_P14	"Reduces Poison duration for all party members."
IDS_SKILL_P15	"Increases the Lighting resistance of all party members."
IDS_SKILL_P16	"Adds Elemental (Fire, Lightning and Cold) damage to all melee attacks."
IDS_SKILL_P17	"A magical Hammer spirals outward, damaging enemies. The Undead take additional damage."
IDS_SKILL_P18	"Reduces the chance that your attacks will be interrupted."
IDS_SKILL_P19	"Periodically does Cold damage to enemies nearby."
IDS_SKILL_P20	"Increases Speed, Stamina, and Stamina recovery for all party members."
IDS_SKILL_P21	"A successful attack has a chance to convert the target to fight evil."
IDS_SKILL_P22	"Magically enhances shield to give defense bonuses."
IDS_SKILL_P23	"Periodically does Lightning damage to enemies within a radius."
IDS_SKILL_P24	"Damages and does knockback to the Undead."

END

STRINGTABLE DISCARDABLE

BEGIN

IDS_SKILL_P25	"Boosts Mana recovery for all party members."
---------------	---

```

IDS_SKILL_P26      "Lightning attack from the sky that releases Holy Bolts."
IDS_SKILL_P27      "Increases the Attack Rate and Attack Rating for all party members."
IDS_SKILL_P28      "Reduces the Defense and Resistances of all enemies."
IDS_SKILL_P29      "Periodically attempts to redeem corpses for Health and Mana."
IDS_SKILL_P30      "Increases all Elemental resistances for all party members."
END

STRINGTABLE DISCARDABLE
BEGIN
  IDS_SKILL_B01     "A powerful smashing blow that knocks the target back."
  IDS_SKILL_B02     "Increased damage and Attack Rating when using swords."
  IDS_SKILL_B03     "Increased damage and Attack Rating when using axes."
  IDS_SKILL_B04     "Increased damage and Attack Rating when using maces."
END

STRINGTABLE DISCARDABLE
BEGIN
  IDS_SKILL_B05     "Frightens monsters into retreating."
  IDS_SKILL_B06     "Grants a chance that a Health, Mana or Rejuvenation potion can be derived from a corpse."
  IDS_SKILL_B07     "Barbarian jumps and knocks back enemies where he lands."
  IDS_SKILL_B08     "A quick double attack that can damage two nearby enemies."
  IDS_SKILL_B09     "Increased damage and Attack Rating when using pole arms."
  IDS_SKILL_B10     "Increased damage and Attack Rating when throwing a weapon."
  IDS_SKILL_B11     "Increased damage and Attack Rating when using spears."
  IDS_SKILL_B12     "Taunts a monster to fight you."
  IDS_SKILL_B13     "Increases the defense of friendly units."
  IDS_SKILL_B14     "A successful attack briefly stuns the enemy."
  IDS_SKILL_B15     "Throws two weapons."
  IDS_SKILL_B16     "Increases stamina, and stamina recovery rate."
  IDS_SKILL_B17     "Grants a chance that an item can be found on a corpse."
  IDS_SKILL_B18     "Leaps onto a target and attacks when landing."
  IDS_SKILL_B19     "An uninterruptible attack that also temporarily improves your defense."
  IDS_SKILL_B20     "Improves overall defense."
END

STRINGTABLE DISCARDABLE
BEGIN
  IDS_SKILL_B21     "Frightens nearby enemies and lowers their defense."
  IDS_SKILL_B22     "Every successful hit increases your velocity and attack speed."
  IDS_SKILL_B23     "Increases your walk and run speeds."
  IDS_SKILL_B24     "Increases Mana, Life, and Stamina of party members."
  IDS_SKILL_B25     "Turns a corpse into a fetish that will frighten monsters away."
  IDS_SKILL_B26     "A fierce spinning attack."
  IDS_SKILL_B27     "A powerful attack that leaves the Barbarian more vulnerable."
  IDS_SKILL_B28     "Increases resistances to elemental damage."
  IDS_SKILL_B29     "Damages and stuns your enemies."
  IDS_SKILL_B30     "Temporarily increases the skills of party members by 1."
END

STRINGTABLE DISCARDABLE
BEGIN
  IDS_QUEST11      "Den of Evil"
  IDS_QUEST12      "Sister's Burial Grounds"
  IDS_QUEST13      "Search for Cain / Cow Level"
  IDS_QUEST14      "The Forgotten Tower"
  IDS_QUEST15      "Tools of the Trade"
  IDS_QUEST16      "Sisters to the Slaughter"
  IDS_QUEST21      "Radament's Lair"
  IDS_QUEST22      "The Horadric Staff"
  IDS_QUEST23      "Tainted Sun"
  IDS_QUEST24      "Arcane Sanctuary"
  IDS_QUEST25      "The Summoner"
  IDS_QUEST26      "The Seven Tombs"
  IDS_QUEST31      "The Golden Bird"
  IDS_QUEST32      "Blade of the Old Religion"
  IDS_QUEST33      "Kahlim's Will"
END

STRINGTABLE DISCARDABLE
BEGIN
  IDS_QUEST34      "Lam Esen's Tomb"
  IDS_QUEST35      "The Blackend Temple"
  IDS_QUEST36      "The Guardian"
  IDS_QUEST41      "The Fallen Angel"
  IDS_QUEST42      "Hell Forge"
  IDS_QUEST43      "Terror's End"
END

```

```
#endif // Neutral resources
```

```

////////////////////////////////////
////////////////////////////////////
// Deutsch (Deutschland) resources

#if !defined(AFX_RESOURCE_DLL) || defined(AFX_TARG_DEU)
#ifdef _WIN32
LANGUAGE LANG_GERMAN, SUBLANG_GERMAN
#pragma code_page(1252)
#endif // _WIN32

#ifdef APSTUDIO_INVOKED
////////////////////////////////////
//
// TEXTINCLUDE
//

1 TEXTINCLUDE DISCARDABLE
BEGIN
    "ResourceIDs.h\0"
END

2 TEXTINCLUDE DISCARDABLE
BEGIN
    "#include \"afxres.h\"\r\n"
    "#include <dlgs.h>\r\n"
    "\0"
END

3 TEXTINCLUDE DISCARDABLE
BEGIN
    "\0"
END

#endif // APSTUDIO_INVOKED

#ifdef _MAC
////////////////////////////////////
//
// Version
//

VS_VERSION_INFO VERSIONINFO
FILEVERSION 3,0,0,0
PRODUCTVERSION 3,0,0,0
FILEFLAGSMASK 0x3fL
#ifdef _DEBUG
FILEFLAGS 0x1L
#else
FILEFLAGS 0x0L
#endif
FILEOS 0x40004L
FILETYPE 0x1L
FILESUBTYPE 0x0L
BEGIN
    BLOCK "StringFileInfo"
    BEGIN
        BLOCK "000004b0"
        BEGIN
            VALUE "Comments", "\0"
            VALUE "CompanyName", "A\0"
            VALUE "FileDescription", "Jamella's Diablo 2 Editor\0"
            VALUE "FileVersion", "3, 0, 0, 0\0"
            VALUE "InternalName", "JamellaD2Editor\0"
            VALUE "LegalCopyright", "Copyright © 2001 by Jamella\0"
            VALUE "LegalTrademarks", "\0"
            VALUE "OriginalFilename", "JamellaD2Editor.exe\0"
            VALUE "PrivateBuild", "\0"
            VALUE "ProductName", "Jamella's Diablo 2 Editor\0"
            VALUE "ProductVersion", "3, 0, 0, 0\0"
            VALUE "SpecialBuild", "\0"
        END
    END
    BLOCK "VarFileInfo"
    BEGIN
        VALUE "Translation", 0x0, 1200
    END
END

```


END

#endif // !_MAC

#endif // Deutsch (Deutschland) resources

////////////////////////////////////