

<pre> char *fmts[MAXFMTS] = { "", // dummy so CF_TEXT (1) can be used to access "CF_TEXT", etc. "TEXT", // CF_TEXT "BITMAP", // CF_BITMAP "METAFILE", // CF_METAFILEPICT "SYLK", // CF_SYLK "DIF", // CF_DIF "TIFF", // CF_TIFF "OEMTEXT", // CF_OEMTEXT "DIB", // CF_DIB "PALETTE", // CF_PALETTE }; void BackPack::WMINITMENU (WinAppMsg&) { CheckMenuItem(GetSystemMenu(hWnd,0), SC_AUTOLOAD, (MF_BYCOMMAND (bAutoLoad ? MF_CHECKED : MF_UNCHECKED))); CheckMenuItem(GetSystemMenu(hWnd,0), SC_AUTOPACK, (MF_BYCOMMAND (bAutoPack ? MF_CHECKED : MF_UNCHECKED))); } void BackPack::WMCHANGECHAIN (WinAppMsg& m) { // viewer list has changed if (m.wParam == clp.NextViewer) // our 'next' is removing itself clp.NextViewer = LOWORD(m.lParam); else if (clp.NextViewer) // not our 'next', tell our 'next' SendMessage (clp.NextViewer,m.msg,m.wParam,m.lParam); } void BackPack::AutoLoad (void) { bAutoLoad = !bAutoLoad; // if Auto Load is selected and app name is not in LOAD= list if (bAutoLoad && !strstr (outbuf,AppName)) { strcpy (outbuf,AppName); strcat (outbuf," "); p = &LastChar (outbuf); p++; GetProfileString ("windows","load","",p,sizeof (outbuf)-(p-outbuf)); WriteProfileString ("windows","load",outbuf); } // if Auto Load is not selected and app name is in LOAD= list if (!bAutoLoad && (p = strstr (outbuf,AppName))) { *p = '\0'; p += strlen (AppName); strcat (outbuf,p); WriteProfileString ("windows","load",outbuf); } } void BackPack::ResizeFileHeader (void) { WORD oldMax = arrayMgr.MaxElements(); if (oldMax < MaxItems) { char dir[MAXPATHLEN]; GetWindowsDirectory (dir,sizeof (dir)); strcat (dir,"\\"); strcat (dir,szBackPackTemp); File TempFile (dir); } } </pre>	<pre> TempFile.Create(0); arrayMgr.UpdateOffsets (FirstRecord()-firstOffset); // create the file UpdateHeader (TempFile); // write the new header to the f file TempFile.Append (StackFile,firstOffset); // tack on rest of org file TempFile.Close(); // close 'em StackFile.Close(); StackFile.Delete(); // delete the old guy TempFile.Rename (StackFile.GetName()); // rename the disk file StackFile.Open (OF_READWRITE); // re-open it } else UpdateHeader (StackFile); // if array shrunk } void BackPack::PackFile (void) { #ifdef OLD DWORD curOffset = FirstRecord(); WORD compress = FALSE; for (int i = arrayMgr.NumElements()-1; i >= 0; i--) // for each item { if (arrayMgr.IsDupe (i,arrayMgr[i]->offset)) // calculate it's true size continue; // if already copied, DWORD size = arrayMgr[i]->size + sizeof (CLIPOBJECT); // don't copy it if (arrayMgr[i]->format == CF_BITMAP) size += sizeof (BITMAP); if (arrayMgr[i]->offset != curOffset) // if not at the right offset { StackFile.CopyBytes (curOffset,arrayMgr[i]->offset,size); // copy it to new location arrayMgr[i]->offset = curOffset; // reset offset in header compress = TRUE; } curOffset += size; // set for next location in file } if (!compress) return; UpdateHeader (StackFile); // write the header char dir[MAXPATHLEN]; GetWindowsDirectory (dir,sizeof (dir)); strcat (dir,"\\"); strcat (dir,szBackPackTemp); // create C:\BackPack.\$\$\$ name File TempFile (dir); // create temp file object TempFile.Create(0); TempFile.Append (StackFile,0,curOffset); // close 'em TempFile.Close(); StackFile.Close(); StackFile.Delete(); // delete the old guy TempFile.Rename (StackFile.GetName()); // rename the disk file StackFile.Open (OF_READWRITE); // re-open it } else strcat (dir,szBackPackTemp); // create C:\BackPack.\$\$\$ name File TempFile (dir); // create temp file object TempFile.Create(0); DWORD tempOffset = FirstRecord(); HANDLE hMem = GlobalAlloc (GHND,0xfffff); LPSTR buffer = GlobalLock (hMem); TempFile.Append (StackFile,0,tempOffset,buffer); for (int i = 0; i < arrayMgr.NumElements(); i++) // for each item in array { if (arrayMgr.IsDupe (i)) // if dupe </pre>
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        if (!arrayMgr.IsFirstDupe(i)) // but a subsequent one,
            continue;
        // calculate it's true size
        DWORD size = arrayMgr[i]->size + sizeof(CLIPOBJECT);
        if (arrayMgr[i]->format == CF_BITMAP)
            size += sizeof(BITMAP); // if bitmap, add size of BITMAP

        TempFile.Append(StackFile, arrayMgr[i]->offset,
            size+arrayMgr[i]->offset, buffer);

        if (arrayMgr.IsDupe(i)) // if it's a dupe
            arrayMgr.Updatedupes(i, tempOffset); // update all of them
        else
            arrayMgr[i]->offset = tempOffset; // set for next location in Tempfile
            tempOffset += size; // close 'em

        TempFile.Close();
        StackFile.Close();
        StackFile.Delete(); // delete the old guy
        TempFile.Rename(StackFile.GetName()); // rename the disk file
        StackFile.Open(OF_READWRITE); // re-open it
    #endif
}

void BackPack::Init(void)
{
    myCursor(WAIT);
    // initialize list box here...
    if (newFile)
    {
        arrayMgr.Init(MaxItems);
        UpdateHeader(StackFile);
        newFile = FALSE;
    }
    else
    {
        // read array table from existing file

        // go to array table offset
        StackFile.ReadAt(0L, sizeof(header), &header);
        arrayMgr.Init(header.MaxElements); // create array and init maxEl
        arrayMgr.SetNumElements(header.NumElements); // init numEl
        arrayMgr.LastOffset(header.LastOffset); // init lastOffset
        // read the array table into array
        StackFile.ReadAt(0L+sizeof(header),
            (WORD)arrayMgr.Size(), arrayMgr.Array());

        if (arrayMgr.MaxElements() != MaxItems) // if array needs resizing
            ResizeFileHeader(); // do it.
        if (bAutoPack) // if compression turned on
            PackFile(); // do it.
        InitListBox();
    }
    clp.JoinViewers(); // become part of Clipboard chain
    myCursor(ARROW);
}

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