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/* Jumpy.c - Execute me to compile me with Lattice 5.10a
LC -bl -cfistq -v -y -j73 Jumpy.c
Blink FROM LIB:c.o,Jumpy.o TO Jumpy LIBRARY LIB:LC.lib,LIB:Amiga.lib
quit
*/

#include <intuition/intuition.h>
#include <intuition/screens.h>
#include <graphics/text.h>
#include <libraries/gadtools.h>

#ifdef LATTICE
#include <string.h>
#include <clib/alib_protos.h>
#include <clib/exec_protos.h>
#include <clib/intuition_protos.h>
#include <clib/gadtools_protos.h>
#include <clib/graphics_protos.h>
/* disable SAS/C CTRL-C handing */
int CXBRK(void)
{
    return (0);
}
int chkabort(void)
{
    return (0);
}
#endif

struct IntuitionBase *IntuitionBase;
struct GfxBase *GfxBase;
struct Library *GadToolsBase;
struct Library *IconBase;
struct Library *CxBases;

LONG main(LONG, UBYTE **);

LONG main(LONG argc, UBYTE ** argv)
{
    struct Window *window;
    struct IntuiMessage *img;
    struct Gadget *gadgetcontext;
    struct Gadget *gadget, *nextscreengadget;
    struct NewGadget ng;
    struct TextExtent textextent;
    UWORD left, top;
    void *visualinfo;
    UBYTE *startupname;
    UBYTE namebuffer[MAXPUBSCREENNAME];
    UBYTE **tooltypes;
    BOOL ABORT = FALSE;

    if (IntuitionBase = OpenLibrary("intuition.library", 37))
    {
        /* Open GfxBase to use TextExtent() so we can handle proportional fonts */
        if (GfxBase = OpenLibrary("graphics.library", 37))
        {
            if (GadToolsBase = OpenLibrary("gadtools.library", 37))
            {
                /*
                 * Open commodities & icon.library so we can use ArgArray
                 * functions
                 */
                if (CxBases = OpenLibrary("commodities.library", 37))
                {
                    if (IconBase = OpenLibrary("icon.library", 37))
                    {
                        left = 50;
                        top = 50;
                        /* Initial offset */
                        /* Note that these are functions in amiga.lib */
                        if (tooltypes = ArgArrayInit(argc, argv))
                        {
                            startupname =
                                ArgString(tooltypes, "PUBSCREEN", "Workbench");

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strcpy(namebuffer, startupname);
ArgArrayDone();
}
else
    strcpy(namebuffer, "Workbench");
do
{
    /* open a window with tags */
    /* no NewWindow structure, tags only */
    if (window = OpenWindowTags(NULL,
        /* Open at far left corner */
        WA_Left, left,
        WA_Top, top,
        WA_Width, 150,
        WA_Height, 80,
        WA_Title, (LONG) "jumpy",
        WA_PubScreenName, (LONG) namebuffer,
        /* if no pubscreen with this name exists... */
        WA_PubScreenFallBack, TRUE,
        /* ...fall back on default pubscreen */
        WA_Flags, WFLG_DRAGBAR | WFLG_DEPTHGADGET |
            WFLG_CLOSEGADGET | WFLG_ACTIVATE |
            WFLG_SMART_REFRESH | WFLG_NOCAREREFRESH,
        WA_IDCMP, IDCMP_CLOSEWINDOW | IDCMP_GADGETUP,
        TAG_DONE))
    {
        /*
         * Get the visual info gadtools needs for the
         * screen we opened on
         */
        if (visualinfo = GetVisualInfoA(window->WScreen, NULL))
        {
            /*
             * Create a simple gadtools button and sort
             * of lay it out. Note this doesn't do any
             * checking for legal (window) dimensions.
             */
            if (gadget = CreateContext(&gadgetcontext))
            {
                /*
                 * Use TextExtent to handle
                 * proportional fonts
                 */
                TextExtent(&(window->WScreen->RastPort),
                    "Jump", 4, &textextent);
                ng.ng_Width = textextent.te_Width + 8;
                ng.ng_LeftEdge = (window->Width / 2) -
                    (ng.ng_Width / 2);
                ng.ng_Height = textextent.te_Height + 4;
                ng.ng_TopEdge = (
                    (window->Height - window->BorderTop -
                    window->BorderBottom) / 2) +
                    (ng.ng_Height / 2);
                ng.ng_TextAttr = window->WScreen->Font;
                ng.ng_GadgetText = "Jump";
                ng.ng_VisualInfo = visualinfo;
                ng.ng_GadgetID = 1;
                ng.ng_Flags = PLACETEXT_IN;
                nextscreengadget = gadget =
                    CreateGadget(BUTTON_KIND, gadget, &ng,
                        TAG_END);
                AddGList(window, gadget, -1, -1, NULL);
                RefreshGList(gadget, window, NULL, -1);
                GT_RefreshWindow(window, NULL);

                WaitPort(window->UserPort);
                while (img = (struct IntuiMessage *)
                    GetMsg(window->UserPort))
                {
                    if (img->Class == IDCMP_CLOSEWINDOW)
                        ABORT = TRUE;
                    else if (img->Class == IDCMP_GADGETUP)
                        NextPubScreen(window->WScreen,
                            namebuffer);
                }
            }
        }
    }
}

```

[illegible]

```
CloseLibrary(IntuitionBase);
```

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/* Hide.h
*/

WORD chip      ImageI1Data[] =
{
/* Plane 0 */
0x0000, 0x0000, 0x0000, 0x0000, 0x0000, 0x8208, 0x0000, 0x0000,
0x8208, 0x7FFF, 0xFFFF, 0xFEF8, 0x4000, 0x0000, 0x00A8, 0x4000,
0x0000, 0x0048, 0x4000, 0x0000, 0x00A8, 0x4000, 0x0000, 0x0048,
0x4000, 0x0000, 0x00A8, 0x4000, 0x0000, 0x0008, 0x4000, 0x0000,
0x0008, 0x4000, 0x0000, 0x00E8, 0x4000, 0x0000, 0x0008, 0xFFFF,
0xFFFF, 0xFFFF,
/* Plane 1 */
0xFFFF, 0xFFFF, 0xFFFF, 0x8000, 0x0000, 0x4100, 0x8000, 0x0000,
0x4100, 0x8000, 0x0000, 0x0100, 0xC000, 0x0000, 0x0110, 0xC000,
0x0000, 0x0110, 0xC000, 0x0000, 0x0110, 0xC000, 0x0000, 0x0110,
0xC000, 0x0000, 0x0110, 0xC000, 0x0000, 0x0110, 0xC000, 0x0000,
0x0110, 0xC000, 0x0000, 0x0110, 0xFFFF, 0xFFFF, 0xFFFF, 0x0000,
0x0000, 0x0000,
};

struct Image      ImageI1 =
{
0, 0, /* Upper left corner */
45, 14, 2, /* Width, Height, Depth */
ImageI1Data, /* Image data */
0x0003, 0x0000, /* PlanePick, PlaneOnOff */
NULL /* Next image */
};

WORD chip      ImageI2Data[] =
{
/* Plane 0 */
0x0000, 0x0000, 0x0000, 0x7FFF, 0xFFFF, 0xBEF8, 0x7FFF, 0xFFFF,
0xBEF8, 0x7FFF, 0xFFFF, 0xFEF8, 0x4000, 0x0000, 0x00E8, 0x4000,
0x0000, 0x00E8, 0x4000, 0x0000, 0x00E8, 0x4000, 0x0000, 0x00E8,
0x4000, 0x0000, 0x00E8, 0x4000, 0x0000, 0x00A8, 0x4000, 0x0000,
0x00A8, 0x4000, 0x0000, 0x00E8, 0x4000, 0x0000, 0x0008, 0xFFFF,
0xFFFF, 0xFFFF,
/* Plane 1 */
0xFFFF, 0xFFFF, 0xFFFF, 0xFFFF, 0xFFFF, 0x7DF0, 0xFFFF, 0xFFFF,
0x7DF0, 0x8000, 0x0000, 0x0100, 0xC000, 0x0000, 0x0150, 0xC000,
0x0000, 0x01B0, 0xC000, 0x0000, 0x0150, 0xC000, 0x0000, 0x01B0,
0xC000, 0x0000, 0x0150, 0xC000, 0x0000, 0x01F0, 0xC000, 0x0000,
0x01F0, 0xC000, 0x0000, 0x0110, 0xFFFF, 0xFFFF, 0xFFFF, 0xC000,
0x0000, 0x0000,
};

struct Image      ImageI2 =
{
0, 0, /* Upper left corner */
45, 14, 2, /* Width, Height, Depth */
ImageI2Data, /* Image data */
0x0003, 0x0000, /* PlanePick, PlaneOnOff */
NULL /* Next image */
};

struct DiskObject AppIconDObj =
{
0,
0,
{
NULL, /* Embedded Gadget Structure */
0, 0, 45, 15, /* Next Gadget Pointer */
GFLG_GADGHIIMAGE, /* Left,Top,Width,Height */
0, /* Activation Flags */
0, /* Gadget Type */
(APTR) & ImageI1, /* Render Image */
(APTR) & ImageI2, /* Select Image */
NULL, /* Gadget Text */
NULL, /* Mutual Exclude */
NULL, /* Special Info */
0, /* Gadget ID */
NULL, /* User Data */
},
0, /* Icon Type */
};

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if (GfxBase = OpenLibrary("graphics.library", 37))
{
    /* Open gadtools for that lonely gadget */
    if (GadToolsBase = OpenLibrary("gadtools.library", 37))
    {
        if (WorkbenchBase = OpenLibrary("workbench.library", 37))
        {
            /* Message to receive appmessage on */
            if (appport = CreateMsgPort())
            {
                /* open a window with tags */
                left = top = 50;
                do
                {
                    /* no NewWindow structure, tags only */
                    if (window = OpenWindowTags(NULL,
                                                /* Open at far left corner */
                                                WA_Left, left,
                                                WA_Top, top,
                                                WA_Width, 150,
                                                WA_Height, 80,
                                                WA_Title, (LONG) "hide",
                                                WA_Flags, WFLG_DRAGBAR |
                                                            WFLG_DEPTHGADGET | WFLG_CLOSEGADGET |
                                                            WFLG_ACTIVATE | WFLG_SMART_REFRESH |
                                                            WFLG_NOCAREREFRESH,
                                                WA_IDCMP,
                                                IDCMP_CLOSEWINDOW | IDCMP_GADGETUP,
                                                TAG_DONE))
                    {
                        window->signal = 1L << window->UserPort->mp_SigBit;
                        /*
                         * Get the visual info gadtools needs for the
                         * screen we opened on
                         */
                        if (visualinfo = GetVisualInfoA(window->WScreen, NULL))
                        {
                            /*
                             * Create a simple gadtools button and sort
                             * of lay it out
                             */
                            if (gadget = CreateContext(&gadgetcontext))
                            {
                                /*
                                 * Use TextExtent to handle
                                 * proportional fonts
                                 */
                                TextExtent(&(window->WScreen->RastPort),
                                             "Hide", 4, &textextent);
                                ng.ng_Width = textextent.te_Width + 8;
                                ng.ng_LeftEdge = (window->Width / 2)
                                                    - (ng.ng_Width / 2);
                                ng.ng_Height = textextent.te_Height + 4;
                                ng.ng_TopEdge = (
                                    (window->Height - window->BorderTop
                                     - window->BorderBottom) / 2)
                                                    + (ng.ng_Height / 2);
                                ng.ng_TextAttr = window->WScreen->Font;
                                ng.ng_GadgetText = "Hide";
                                ng.ng_VisualInfo = visualinfo;
                                ng.ng_GadgetID = 1;
                                ng.ng_Flags = PLACETEXT_IN;
                                hidegadget = gadget =
                                    CreateGadget(BUTTON_KIND, gadget,
                                                  &ng, TAG_END);
                                AddGList(window, gadget, -1, -1, NULL);
                                RefreshGList(gadget, window, NULL, -1);
                                GT_RefreshWindow(window, NULL);

                                CONTINUE = TRUE;
                                waitmask = window->signal |
                                                    1L << appport->mp_SigBit;
                                do
                                {
                                    signal = Wait(waitmask);
                                }
                            }
                        }
                    }
                } while (1);
            }
        }
    }
}

```

```

    if (signal & windowSignal)
    {
        while (imsg = (struct IntuiMessage *)
            GetMsg(window->UserPort))
        {
            if (imsg->Class ==
                IDCMP_CLOSEWINDOW)
            {
                ABORT = TRUE;
                CONTINUE = FALSE;
                ICONIFY = FALSE;
            }
            else
            {
                if (imsg->Class == IDCMP_GADGETUP)
                {
                    ICONIFY = TRUE;
                    ReplyMsg((struct Message *) imsg);
                }
            }
        }
        if (signal & (1L << appport->mp_SigBit))
        {
            while (appmsg = (struct AppMessage *)
                GetMsg(appport))
            {
                /*
                 * If am->NumArgs is zero
                 * the user double-clicked
                 * on our icon, otherwise
                 * one or more icons were
                 * dropped on top of it.
                 */
                if (appmsg->am_NumArgs == 0)
                {
                    RemoveAppIcon(appicon);
                    CONTINUE = FALSE;
                }
                ReplyMsg(
                    (struct Message *) appmsg);
            }
        }
        if (ICONIFY)
        {
            /*
             * Add appicon, close window if
             * succesful
             */
            appicon = AddAppIcon(1, NULL, "Hide",
                appport, NULL, &AppIconDObj, NULL);
            if (appicon == NULL)
            {
                DisplayBeep(window->WScreen);
            }
            else
            {
                RemoveGadget(window, hidegadget);
                left = window->LeftEdge;
                top = window->TopEdge;
                CloseWindow(window);
                window = NULL;
                /* there is no window
                 * message port anymore */
                waitmask =
                    1L << appport->mp_SigBit;
            }
            ICONIFY = FALSE;
        }
        while (CONTINUE == TRUE);
        if (window)
            RemoveGadget(window, hidegadget);
        FreeGadgets(gadgetcontext);
    }
    FreeVisualInfo(visualinfo);
}

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        if (window)
        {
            left = window->LeftEdge;
            top = window->TopEdge;
            CloseWindow(window);
        }
        while (ABORT == FALSE);
        DeleteMsgPort(appport);
        CloseLibrary(WorkbenchBase);
        CloseLibrary(GadToolsBase);
        CloseLibrary(GfxBase);
        CloseLibrary(IntuitionBase);
    }
    return (0);
}

```

