
Subject: Stuck with TrayIcon in Linux....

Posted by [mirek](#) on Sat, 06 Jan 2007 10:59:23 GMT

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...almost there:

```
#include <CtrlLib/CtrlLib.h>
```

```
using namespace Upp;
```

```
NAMESPACE_UPP
```

```
Atom TraySelection()
```

```
{  
    return XAtom(Format("_NET_SYSTEM_TRAY_S%d", Xscreenno));  
}
```

```
struct TrayIcon : TopWindow {  
    virtual bool HookProc(XEvent *event);  
    virtual void Paint(Draw& draw);  
    virtual void LeftDown(Point p, dword keyflags);  
    virtual void Layout();
```

```
    void AddToTray();
```

```
    Window traywin;  
    XSizeHints *size_hints;
```

```
    TrayIcon();  
    ~TrayIcon();  
};
```

```
void TrayIcon::Layout()  
{  
    DUMP(GetRect());  
}
```

```
void TrayIcon::AddToTray()  
{  
    traywin = XGetSelectionOwner(Xdisplay, TraySelection());  
    if(!traywin) return;
```

```
    XSelectInput(Xdisplay, traywin, StructureNotifyMask);  
    XWindowAttributes attr;  
    XGetWindowAttributes(Xdisplay, Xroot, &attr);  
    XSelectInput(Xdisplay, Xroot, attr.your_event_mask | StructureNotifyMask);
```

```

size_hints->min_width = 22;
size_hints->min_height = 22;
size_hints->max_width = 22;
size_hints->max_height = 22;
size_hints->x = 0;
size_hints->y = 0;
size_hints->width = 22;
size_hints->height = 22;
size_hints->win_gravity = StaticGravity;
size_hints->flags = PMinSize|PMaxSize|PPosition|PSize|PWinGravity;
XSetWMNormalHints(Xdisplay, GetWindow(), size_hints);

```

```

bool x11trap = TrapX11Errors();
XEvent e;
Zero(e);
e.xclient.data.l[0] = CurrentTime;
e.xclient.data.l[2] = GetWindow();
e.xclient.window = traywin;
e.xclient.type = ClientMessage;
e.xclient.message_type = XAtom("_NET_SYSTEM_TRAY_OPCODE");
e.xclient.format = 32;
XSendEvent(Xdisplay, traywin, XFalse, 0, &e);
XSync(Xdisplay, XFalse);
UntrapX11Errors(x11trap);
}

```

```

bool TrayIcon::HookProc(XEvent *event)
{
XAnyEvent *e = (XAnyEvent *)event;
if(e->type == DestroyNotify && e->window == traywin) {
AddToTray();
return true;
}
if(e->type == ClientMessage && !traywin) {
XClientMessageEvent *cm = (XClientMessageEvent *)event;
if(cm->message_type == XAtom("MANAGER") && (Atom)cm->data.l[1] == TraySelection()) {
AddToTray();
return true;
}
}
return false;
}

```

```

void TrayIcon::Paint(Draw& w)
{
w.DrawRect(GetSize(), Cyan);
}

```

```
void TrayIcon::LeftDown(Point p, dword keyflags)
{
    EndLoop();
}
```

```
TrayIcon::TrayIcon()
{
    size_hints = XAllocSizeHints();
    SetRect(0, 0, 24, 24);
    ignoretakefocus = true;

    Create(NULL, true, false);
    if(top) popup = true;
    WndShow(visible);

    AddToTray();
}
```

```
TrayIcon::~~TrayIcon()
{
    XFree(size_hints);
}
```

END_UPP_NAMESPACE

```
GUI_APP_MAIN
{
    TrayIcon icon;
    Ctrl::EventLoop(&icon);
}
```

...however, tray icon created is only 1 pixel wide. Anybody has the idea why?

Mirek
