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Subject: Re: TopWindow::SerializePlacement () on dual-head display

Posted by [Tom1](#) on Fri, 18 May 2012 13:36:55 GMT

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Hi,

I found that having stored maximized window loses the normal size information when restored.  
Here's the fixed version of SerializePlacement:

```
void TopWindow::SerializePlacement(Stream& s, bool reminimize)
{
    GuiLock __;
#ifdef PLATFORM_WINCE
    int version = 0;
    s / version;
    Rect rect = GetRect();
    s % overlapped % rect;
    bool mn = state == MINIMIZED;
    bool mx = state == MAXIMIZED;
    s.Pack(mn, mx);
    LLOG("TopWindow::SerializePlacement / " << (s.IsStoring() ? "write" : "read"));
    LLOG("minimized = " << mn << ", maximized = " << mx);
    LLOG("rect = " << rect << ", overlapped = " << overlapped);
    if(s.IsLoading()) {
        rect = overlapped;
        Rect limit = GetVirtualWorkArea();
        Rect outer = rect;
        ::AdjustWindowRect(outer, WS_OVERLAPPEDWINDOW, FALSE);
        limit.left  += rect.left  - outer.left;
        limit.top   += rect.top   - outer.top;
        limit.right += rect.right - outer.right;
        limit.bottom += rect.bottom - outer.bottom;
        Size sz = min(rect.Size(), limit.Size());
        rect = RectC(
            minmax(rect.left, limit.left, limit.right - sz.cx),
            minmax(rect.top, limit.top, limit.bottom - sz.cy),
            sz.cx, sz.cy);
        state = OVERLAPPED;
        SetRect(rect);
        if(mn && reminimize)
            state = MINIMIZED;
        if(mx)
            state = MAXIMIZED;
        if(IsOpen()) {
            WINDOWPLACEMENT wp;
            memset(&wp,0,sizeof(WINDOWPLACEMENT));
            wp.length=sizeof(WINDOWPLACEMENT);
```

```
wp.showCmd = state==MINIMIZED ? SW_MINIMIZE : state==MAXIMIZED ? SW_MAXIMIZE :  
SW_RESTORE;  
wp.rcNormalPosition.left=rect.left;  
wp.rcNormalPosition.top=rect.top;  
wp.rcNormalPosition.right=rect.right;  
wp.rcNormalPosition.bottom=rect.bottom;  
::SetWindowPlacement(GetHWND(),&wp);  
}  
}  
#endif  
}
```

Unfortunately, I'm still unable to fix another problem with FullScreen mode: At this time it is serialized as if it was a maximized window. Additionally, it also loses the normal window position information in the process.

Best regards,

Tom

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