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Subject: Re: TheIDE Format Setup BUG

Posted by [dolik.rce](#) on Sat, 27 Nov 2010 16:08:13 GMT

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The bug is hidden in ImageX11.cpp, in function ImageDraw::operator Image(). At some point it asks X server for an image and the call fails returning NULL (at line 348). Later this NULL stored in pointer xim is accessed which inevitably leads to a crash.

Quick fix (i.e. removing the problem without really understanding what why the XGetImage fails):

ImageDraw::operator Image() const

```
{
// ... a lot of code omitted here ...
if(has_alpha) {
    xim = XGetImage(Xdisplay, alpha.dw, 0, 0, size.cx, size.cy, AllPlanes, ZPixmap);
    if(xim){ // added this check
        const byte *s = (const byte *)xim->data;
        t = ib;
        Buffer<RGBA> line(size.cx);
        for(int y = 0; y < size.cy; y++) {
            fmt.Read(line, s, size.cx, palette);
            for(int x = 0; x < size.cx; x++)
                (t++)->a = line[x].r;
            s += xim->bytes_per_line;
        }
        XDestroyImage(xim);
    }
}
Premultiply(ib);
return ib;
}
```

As this fix bypasses the alpha processing (when the XGetImage fails), I would expect to see some visual artifacts, but I actually didn't notice anything. Maybe I was not looking hard enough or the effect is too subtle to see in the quick animation.

Also I have no idea why it makes problems in theide but I never seen it in any other app...

Best regards,  
Honza

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