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Subject: Extensions of X-Server

Posted by [Novo](#) on Thu, 04 Jan 2007 04:26:51 GMT

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I've been trying to build and run Upp on Linux. As a result I met a problem, which wasn't discussed on this forum before (or I haven't spent enough time to find a discussion).

Problem:

I'm getting a lot of messages like one below.

Xlib: extension " RENDER " missing on display " 192.168.1.102:0.0 ".

I've checked configuration of two of mine X-Servers. One is Exceed-v7.0, and another is X-Win32-v7.1.

The first one is six year old, and the second one is one year old.

Neither first nor second have a " RENDER " extension.

I've attached both configurations.

libXrender is loading before GTK ...

Is it possible to negotiate capabilities of an X-Server on application startup?

Thanks!

PS: Below is configuration of X-Win32-v7.1

Xlib: extension " MIT-SHM " missing on display " localhost:130.0 ".

Xlib: extension " XFree86-DGA " missing on display " localhost:130.0 ".

Xlib: extension " XFree86-VidModeExtension " missing on display " localhost:130.0 ".

Xlib: extension " XFree86-Misc " missing on display " localhost:130.0 ".

Xlib: extension " XINERAMA " missing on display " localhost:130.0 ".

name of display: localhost:130.0

version number: 11.0

vendor string: StarNet Communications Corp.

vendor release number: 7164

maximum request size: 16777212 bytes

motion buffer size: 256

bitmap unit, bit order, padding: 8, MSBFirst, 16

image byte order: MSBFirst

number of supported pixmap formats: 3

supported pixmap formats:

depth 1, bits\_per\_pixel 1, scanline\_pad 16

depth 8, bits\_per\_pixel 8, scanline\_pad 32

depth 24, bits\_per\_pixel 32, scanline\_pad 32

keycode range: minimum 8, maximum 122

focus: window 0x1e00002, revert to PointerRoot  
number of extensions: 19  
BIG-REQUESTS  
DEC-XTRAP  
DOUBLE-BUFFER  
Extended-Visual-Information  
GLX  
LBX  
MIT-SUNDRY-NONSTANDARD  
RECORD  
SECURITY  
SGI-GLX  
SHAPE  
SYNC  
TOG-CUP  
X-Resource  
XC-MISC  
XFIXES  
XFree86-Bigfont  
XInputExtension  
XTEST  
default screen number: 0  
number of screens: 1

screen #0:  
dimensions: 2048x1280 pixels (600x380 millimeters)  
resolution: 87x86 dots per inch  
depths (3): 1, 24, 8  
root window id: 0x29  
depth of root window: 24 planes  
number of colormaps: minimum 0, maximum 128  
default colormap: 0x26  
default number of colormap cells: 256  
preallocated pixels: black 0, white 16777215  
options: backing-store NO, save-unders YES  
largest cursor: 32x32  
current input event mask: 0x584030  
EnterWindowMask LeaveWindowMask KeymapStateMask  
SubstructureNotifyMask SubstructureRedirectMask PropertyChangeMask  
number of visuals: 4  
default visual id: 0x22  
visual:  
visual id: 0x22  
class: TrueColor  
depth: 24 planes  
available colormap entries: 256 per subfield  
red, green, blue masks: 0xff0000, 0xff00, 0xff  
significant bits in color specification: 8 bits

visual:  
visual id: 0x23  
class: TrueColor  
depth: 24 planes  
available colormap entries: 256 per subfield  
red, green, blue masks: 0xff0000, 0xff00, 0xff  
significant bits in color specification: 8 bits  
visual:  
visual id: 0x24  
class: PseudoColor  
depth: 8 planes  
available colormap entries: 256  
red, green, blue masks: 0x0, 0x0, 0x0  
significant bits in color specification: 8 bits  
visual:  
visual id: 0x25  
class: PseudoColor  
depth: 8 planes  
available colormap entries: 256  
red, green, blue masks: 0x0, 0x0, 0x0  
significant bits in color specification: 8 bits

MIT-SHM extension not supported by server

XKEYBOARD extension not supported by server

SHAPE version 1.0 opcode: 128, base event: 64

SYNC version 3.0 opcode: 135, base event: 81, base error: 142  
system counters: 1

SERVERTIME id: 0x00000027 resolution\_lo: 4 resolution\_hi: 0

XFree86-DGA extension not supported by server

XFree86-VidModeExtension extension not supported by server

XFree86-Misc extension not supported by server

XTEST version 2.2 opcode: 131

DOUBLE-BUFFER version 1.0 opcode: 139, base error: 146  
Double-buffered visuals on screen 0  
visual id 0x22 depth 24 perlevel 0  
visual id 0x23 depth 24 perlevel 0  
visual id 0x24 depth 8 perlevel 0  
visual id 0x25 depth 8 perlevel 0

RECORD version 1.13 opcode: 137, base error: 144

XInputExtension version 1.3 opcode: 130, base event: 65, base error: 128

Extended devices :

"pointer" [XPointer]

"keyboard" [XKeyboard]

RENDER extension not supported by server

XINERAMA extension not supported by server

#### File Attachments

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1) [Exceed-v7.0.txt](#), downloaded 1989 times

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Subject: Re: Extensions of X-Server

Posted by [mirek](#) on Thu, 04 Jan 2007 14:21:25 GMT

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You must be using some really weird distro. RENDER was supported on all major Linux/BSD distros since 5 years ago.

RENDER is required to have any decent text rendering in Linux. 4 years ago there was support for original X11 fonts, but later removed because it was to painful to support.

Mirek

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Subject: Re: Extensions of X-Server

Posted by [Novo](#) on Thu, 04 Jan 2007 15:19:07 GMT

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Both X-Win32 and Exceed are commercial X-Servers for Windows ...

They do not depend on a distro ...

I do not have a monitor attached to a Linux box.

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Subject: Re: Extensions of X-Server

Posted by [guido](#) on Thu, 04 Jan 2007 15:26:18 GMT

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luzr wrote on Thu, 04 January 2007 15:21 You must be using some really weird distro. RENDER was supported on all major Linux/BSD distros since 5 years ago.

RENDER is required to have any decent text rendering in Linux. 4 years ago there was support for original X11 fonts, but later removed because it was to painful to support.

Mirek

Mirek, he wrote:

"PS: Below is configuration of X-Win32-v7.1"

So some X-Server for windows. I don't use windows, so couldn't help, but I don't see how it is related to upp anyway.

PS:

from 6000 Mbit/s dedicated line, yippeah  
Belenix downloaded, Solaris Express next.

Guido

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Subject: Re: Extensions of X-Server

Posted by [Novo](#) on Thu, 04 Jan 2007 15:47:43 GMT

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UPP is trying to use API from the "RENDER" extension, which seems to be not available with all of my X-Servers.

In few minutes ...

I checked the website of X-Win32. They released a new version 8.0, which has a new feature: "The new RENDER extension has been added which provides smooth graphics and text for remote applications that support it.".

So, what I want to say is that some of X-Server extension may be not supported. It is okay.

It would be nice if UPP could negotiate X-Server capabilities before starting to use them.

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Subject: Re: Extensions of X-Server

Posted by [guido](#) on Thu, 04 Jan 2007 16:39:59 GMT

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Novo wrote on Thu, 04 January 2007 16:47UPP is trying to use API from the "RENDER" extension, which seems to be not available with all of my X-Servers.

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So, what I want to say is that some of X-Server extension may be not supported. It is okay.

It would be nice if UPP could negotiate X-Server capabilities before starting to use them.

I guess, you are right. UPP should handle that case, or upp apps are not guaranteed to work properly in a remote session. For native Linux local sessions, Xserver capabilities will always be in sync with the libraries, and the apps won't even launch with ancient versions of X11.

Guido

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**Subject: Re: Extensions of X-Server**

Posted by [mirek](#) on Thu, 04 Jan 2007 17:59:13 GMT

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guido wrote on Thu, 04 January 2007 11:39I guess, you are right. UPP should handle that case, or upp apps are not guaranteed to work properly in a remote session. For native Linux local sessions, Xserver capabilities will always be in sync with the libraries, and the apps won't even launch with ancient versions of X11.

Guido

You just do not have a clue how much trouble is that...

OK, I will think about that..

Mirek

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**Subject: Re: Extensions of X-Server**

Posted by [mirek](#) on Thu, 04 Jan 2007 18:01:06 GMT

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P.S.: U++ runs very well on Cygwin Win32 X11 server connected to Linux machine.

Mirek

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**Subject: Re: Extensions of X-Server**

Posted by [Novo](#) on Thu, 04 Jan 2007 19:18:25 GMT

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luzr wrote on Thu, 04 January 2007 13:01P.S.: U++ runs very well on Cygwin Win32 X11 server connected to Linux machine.

At the palace where I work we use X-Win32. May be I'm wrong, but I think that all commercial

companies use commercial X-Servers. And nobody wants to change an X-Server for UPP's sake.

I'm sorry, I just wanted to point out the problem. It might be important.

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**Subject: Re: Extensions of X-Server**

Posted by [mirek](#) on Thu, 04 Jan 2007 23:25:41 GMT

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Novo wrote on Thu, 04 January 2007 14:18

I'm sorry, I just wanted to point out the problem. It might be important.

That is OK, just unexpected...

Mirek

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