

open



USE



IMPROVE



EVANGELIZE

<Desktop Update>

<Stuart Kreitman, Alan Coopersmith>

<SUNW JAVA Engineering>

<X Server Group>

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EOL of Xsun!

- Solaris-Wide commitment to Xorg
- Xorg/x86 – transition complete
- Xorg/SPARC – In Process
- Xorg/SunRay – In Process



Xorg /x86

- S10_U4 = Xorg 7.2
- S10_U5 = Xorg 7.3
- SXDE 3 (snv_70) = Xorg 7.2
- SXDE 4 = Xorg 7.3
-
- Features: TSOL, Composite, Xrandr1.2, more hardware support



Xorg/x86: What Graphics Card Works?

- NVIDIA – gets full config, OpenGL, nv_drv.so works well
- Models: Quadro, GeForce
- INTEL – gets Xrandr, DRI/DRM full support
- Models: i945 today, i965 (x3100) soon
- ATI models: R100-R400 (Radeon 7000-x850) supported – DRI coming in future
- ATI R500/R600 (X1*00/X2*00) unsupported
- Others: “usually” the VESA driver @1024x768



Xorg/SPARC

- Just beginning an integration of nascent community interest, Martin Bochnig, Moinak Ghosh
- Running: ffb, Elite3D(afb), PGX64
- Soon: XVR100, PGX32
- Dream: Support of generic VBIOS ;-)



Xorg/Sunray

- Shipping on Linux, based on Xorg 6.8.2
- Developing: for S10_U4 (its layered), 64 bit clean, for x86 and sparc, part of big feature boost for Sunray



Xorg New Projects

- FOX
- XDMX – helpful for VirtualGL project
- Updated accessibility based on Composite-better magnification.
- ATI R100-R400 DRI/DRM in process
- Compiz Integration



Desktop Software in Solaris 10

- Solaris 10 8/07 (Update 4)
 - GNOME 2.6, StarOffice 7, Thunderbird 2.0
 - Mozilla 1.7, Firefox 2.0, Flash 7, RealPlayer
 - Trusted Extensions: multi-level CDE & JDS desktops
 - Xsun (default on SPARC, available on x86)
 - Xorg server 1.2 (X11R7.2)
 - X86: 32-bit Xorg server is default, 64-bit Xorg available
 - SPARC: only has 64-bit Xorg server
 - nvidia accelerated graphics drivers
 - Xserver DTrace provider



Desktop Software in Nevada/SXDE

- SXDE 9/07 (Nevada build 70)
 - Everything that's in S10 8/07, plus:
 - GNOME 2.18, Ekiga (video conferencing), GNOME System Admin tools, Vino, Flash 9, StarOffice 8
 - GAIM replaced by Pidgin 2.0, Off-the-Record (OTR) plugin for Pidgin included
 - Lightning 0.3 (calendar plugin for Thunderbird)
 - DRI for i855-i965 series Intel graphics chips
 - libXcomposite



Desktop Software in Nevada/SXDE

- **SXDE 1/08 (Nevada builds 71-79)**
[TENTATIVE – Plans subject to change!]
 - Xorg server 1.3, RandR 1.2 (integrated to build 71)
 - Xvnc (based on current Xorg sources – build TBD)
 - Xorg server 1.4/X11R7.3 (planned after community release)
 - GNOME 2.20 (planned after community release)
 - Firefox 3.0? (if Mozilla community release in time)



Desktop Software in other distros

- **Belenix**
 - Moinak Ghosh took OpenSolaris X source releases & merged in the rest of the X.Org community packages to make full X system
- **Martux**
 - SPARC distro from Martin Bochnig in Germany
 - Uses SPARC graphics drivers reverse engineered by Linux & BSD communities on OpenSolaris kernel



Fully-Open X (FOX) Project

- OpenSolaris project to combine efforts from Nevada, Belenix and Martux distros
 - Full X Window System in open source form
 - Freely redistributable for Project Indiana
 - SPARC Xorg graphics support from open source community drivers (via Martux)
 - Source repository set up in Mercurial on opensolaris.org now with OpenSolaris Nevada code – Belenix & Martux code merges coming soon
 - <http://opensolaris.org/os/project/fox>



Install Compiz on your system (i945)

- blogs.s.c/erwann -> dl packages
- `# ./comp...sh -x`
- `Pkgadd -d .`
- Create and edit `xorg.conf`
- Insert into `/usr/bin/run-compiz`:
`LIBGL_ALWAYS_INDIRECT=TRUE; export
LIBGL_ALWAYS_INDIRECT`
- `logout/in`
- `preferences->compiz settings mgr`



And now, Your Eye Candy Demo

Compiz on i945/Mesa

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Thank you!

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<X Server Engineering>

<www.opensolaris.org/os/community/desktop>

<www.opensolaris.org/os/community/x_win>

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