NAME

openwin – OpenWindows startup script

SYNOPSIS

openwin [*options*]

DESCRIPTION

The **openwin** shell script sets up the proper environment for starting the entire OpenWindows package, including the **Xsun**(1) window server, **olwm**(1) an X11 ICCCM and OpenLook compliant window manager, and several default DeskSet(tm) tools.

OPTIONS

There are several options which allow you to tailor the default setup of the **Xsun** server. **openwin** accepts the same command line options as **Xsun.** For more information, refer to both the **Xsun**(1) and **Xserver**(1) manual pages. Note that options passed to the server by the **openwin** shell script such as **-r** may be overwritten by settings specified by **props**(1) as it initializes the desktop. See the **props**(1) man page for more details.

In addition, **openwin** accepts the following command line arguments that the server does not accept:

[**-server** *Xsun*]
: This tells openwin which server binary to start. The default is **$OPENWINHOME/bin/Xsun**.

[**-noauth**]
: The OpenWindows server implements the "MIT-MAGIC-COOKIE" security mechanism which is a user-specific, rather than host-specific, authorization system. The default is to run with this authorization enabled. This option tells **openwin** to start the server without the "MAGIC COOKIE" authorization and will revert to no user-specific security. *Running the server with this option enabled lowers your level of security. It is recommended that this option not be enabled, except when explicitly needed.* See the OpenWindows documentation for more information.

[**-auth** *protocol-name*]
: This option allows the user to choose the authentication protocol that the server will use to authenticate client connections. The two choices available are **magic-cookie**, or **sun-des**. The former sets the authentication protocol to "MIT-MAGIC-COOKIE" and is the default, while the latter makes the server use "SUN-DES-1", which is based on SecureRPC, as the authentication protocol. See the OpenWindows documentation for more information.

[**-includedemo**]
: This option indicates that the path to the demo directory should be included in the user's search path (see **PATH** below).

[**-wm** *wm-command*]
: This option allows the user to choose an alternate window manager to be started by the system default Xinitrc. The default is to start **olwm**(1) (the OpenLook window manager). For example, the command "openwin -wm twm" will start **twm**(1) instead of **olwm.** A *wm-command* of multiple words must be quoted. This option is likely to be ignored if the user has a $HOME/.xinitrc script of their

own.

ENVIRONMENT

The behavior of **openwin** can also be tailored by means of the following environment variables:

OPENWINHOME
The **OPENWINHOME** variable is no longer required to be set. OpenWindows should always be accessible from **/usr/openwin**. If **OPENWINHOME** is set to anything other than **/usr/openwin**, OpenWindows will not start up properly.

DISPLAY
By default this is ":0", meaning this server is the first (zero based) one running on this machine. If you need to run more than one server on a given machine, use the **-display** option.

LD_LIBRARY_PATH
OpenWindows will no longer set **LD_LIBRARY_PATH**. Applications requiring the OpenWindows libraries should be compiled with **LD_RUN_PATH** set to **/usr/openwin/lib**. If you find an older binary which was compiled without **LD_RUN_PATH** set, you will need to set **LD_LIBRARY_PATH** to **$OPENWINHOME/lib** in order to execute this program.

PATH
This is the path searched by shells (i.e. **csh**(1), **sh**(1), and **ksh**(1)**)** to find executable programs. **$OPENWINHOME/bin** is prepended to your path if it is not there already.

MANPATH
openwin will add **$OPENWINHOME/share/man** to **MANPATH** so that OpenWindows manual pages will be available to the user through the **man**(1) command.

HELPPATH
OpenWindows searches this path for help files, **$OPENWINHOME/lib/help** is appended to any existing definition of **HELPPATH**.

OW_WINDOW_MANAGER
Specifies an alternate window manager command to be used by the system default Xinitrc script. This environment variable is private to the startup scripts and should not be used or set directly.

XINITRC
Specifies an init script executed by **xinit**(1) after the server is up and running. If **$HOME/.xinitrc** does not exist and **XINITRC** is not already set, it is set to **$OPENWINHOME/lib/Xinitrc**.

HOME
The name of the user's login directory, set by **login**(1) from the password file **/etc/passwd** (see **passwd**(1)).

FILES

$HOME/.xinitrc
This is the file executed by **xinit** after the server is up and running. Previous releases copied **$OPENWINHOME/lib/Xinitrc** into **$HOME/.xinitrc**. This is no longer necessary and only users who want to customize server startup need to have this file.

$HOME/.Xdefaults
This is where X11 application resources are defined. The default Xinitrc script will use **.Xdefaults** if it exists, or use **$OPENWINHOME/lib/Xdefaults** if it does not exist.

$OPENWINHOME/lib/Xinitrc
The default **xinit** init script. Site specific changes can be made here and will be used by users without an existing **.xinitrc**. The default Xinitrc contains the following:

```
# @(#)Xinitrc   1.20 92/12/08   OpenWindows startup script.

xrdb $OPENWINHOME/lib/Xdefaults  # Load Default X11 resource
database
if [ -f $HOME/.Xdefaults ]; then
   xrdb -merge $HOME/.Xdefaults          # Load Users X11 resource
database
fi

$OPENWINHOME/lib/openwin-sys      # OpenWindows system
initialization

eval 'locale_env -env'                # Set Locale Environment

if [ "$OW_WINDOW_MANAGER" ]; then       # Alternate Window Manager
   xsetroot -def                      # Clear root window
   $OW_WINDOW_MANAGER & wmpid=$!          # Start Alt Window Manager
   dsdm &                             # OpenLook Drop Site Database
   unset OW_WINDOW_MANAGER
else
   sleep 15 & pid=$!                  # OpenLook Window Manager
   olwm -syncpid $pid & wmpid=$!
   wait $pid                      # Pause until olwm inits
fi

if [ -x $HOME/.openwin-init ]; then
   $HOME/.openwin-init                      # Custom OpenWindows tools
else
   $OPENWINHOME/lib/openwin-init # Default OpenWindows tools
fi
```

```
wait $wmpid                    # Wait for wm (key client) to exit
```

$OPENWINHOME/lib/Xdefaults
Site specific changes to the default resource database can be made here and will be propagated to users without an existing **.Xdefaults**.

$HOME/.Xauthority and **$HOME/.xsun.***hostname:displaynumber*
Files where per-session authorization information is written.

SEE ALSO

Xsun(1), **Xserver**(1), **login**(1), **olwm**(1), **passwd**(1), **props**(1), **xinit**(1), **xrdb**(1)