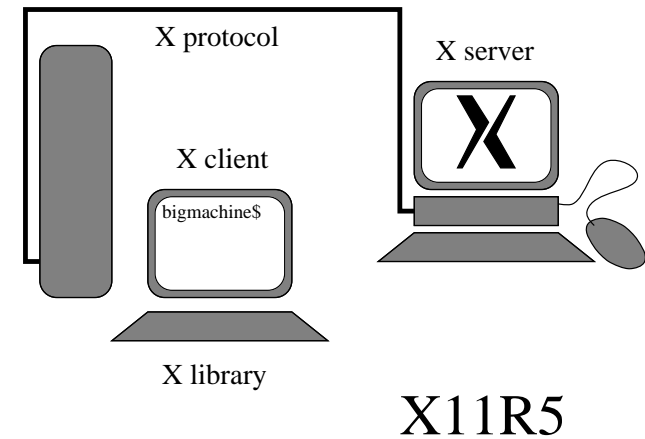


Graphical User Interface – X11

- Structure of the X Window System,
- Major components,
- Available implementations and current versions,
- Usage.

1

Structure of X11



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Configuration files of the X-Windows

- X11 - .Xresources, .xinitrc, .xsession
- OpenWindows - .Xdefaults, .desksetdefaults, .openwin-init, .openwin-menu

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Running remote programs

```
(workstation)$ xhost +supercomputer
(workstation)$ rlogin supercomputer
Password:
(supercomputer)$ DISPLAY=workstation:0.0
(supercomputer)$ export DISPLAY
(supercomputer)$ xclock &
```

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.Xresources

```
XTerm*tek4014*fontLarge: 9x15
XTerm*tek4014*font2: 8x13
XTerm*tek4014*font3: 6x13
XTerm*cursorColor: blue
Mosaic*homeDocument: http://www.ia.pw.edu.pl/~jurek/
```

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.Xdefaults

```
OpenWindows.WorkspaceColor: #40a0c0
OpenWindows.IconLocation: bottom
```

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.xinitrc

```
#!/bin/sh
xconsole -geometry 573x63+0+0 -fn 5x7 &
xterm -geometry 94x53-0+88 &
xterm -geometry 94x53+0+88 &
xclock -geometry 78x78-0+0 &
xbiff -geometry 78x78-86+0 &
xman -geometry 118x78-172+0 &
exec twm
```

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.desksetdefaults

```
deskset.filemgr.shellToolName: cmdtool
deskset.filemgr.sortType: name
deskset.filemgr.treeDirectionVertical: true
deskset.filemgr.window1IconYPosition: 0
deskset.filemgr.wastebasketClosed: false
deskset.filemgr.wastebasketWindowXPosition: 646
deskset.filemgr.window1WindowYPosition: 120
deskset.filemgr.treeView: false
deskset.calendar.Upgrade: true
```

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.openwin-init

```
#!/bin/sh
# .openwin-init - OpenWindows initialization script.
# WARNING: This file is automatically generated.
#     Any changes you make here will be lost!
cmdtool  -Wp   0   0 -Ws 566  78 -WP   3   4 +Wi-C &
clock    -Wp 1042   0 -Ws 100  90 -WP 1060   3 +Wi  &
shelltool -Wp  576 110 -Ws 566 693 -WP  371 832 +Wi  &
shelltool -Wp   0 109 -Ws 566 693 -WP  298 833 +Wi  &
cm       -Wp   90  90 -Ws 640 690 -WP  900   0 -Wi  &
filemgr  -Wp   0 120 -Ws 590 300 -WP   78 848 -Wi  &
mailtool -Wp  180 180 -Ws 589 252 -WP  152 833 -Wi  &
```

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.xsession

```
width='xwininfo -root | grep Width|sed -e s/Width:/'
if [ $width = "1152" ] ; then # Standard SUN screen!
    xconsole      -geometry 573x63+0+0 -fn 5x7 &
    xterm         -geometry 94x53-0+88 &
    xterm         -geometry 94x53+0+88 &
elif [ $width = "1024" ] ; then # Typical SVGA screen!
    xconsole      -geometry 500x63+0+0 -fn 5x7 &
    xterm         -geometry 83x43-0+88 &
    xterm         -geometry 83x43+0+88 &
else # Unknown screen
    xconsole      -geometry 400x63+0+0 -fn 5x7 &
    xterm         -geometry 80x24-0+88 &
    xterm         -geometry 80x24+0+88 &
```

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.openwin-menu

```
#     OpenWindows root menu file
"Workspace" TITLE
"Programs"      DEFAULT INCLUDE openwin-menu-programs
"Utilities"     INCLUDE openwin-menu-utilities
"Properties..." PROPERTIES
SEPARATOR
"Workstation Info..." exec $OPENWINHOME/bin/wsinfo
SEPARATOR
"Exit..."     EXIT
```

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```
fi
xclock      -geometry 78x78-0+0 &
xbiff      -geometry 78x78-86+0 &
xman       -geometry 118x78-172+0 &
```

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