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X Window System for A/UX 2.1: Xt and Athena Widget Set

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- For technical accuracy.

TOPIC -----

X Window System for A/UX 2.1 supports Xlib and the X Toolkit. Is the X Toolkit the same as the Xt toolkit? Does the X Toolkit include the MIT Athena Widget set? What makes up the MIT Athena Widget set, and what is its relationship to X Toolkit?

DISCUSSION -----

The X Toolkit in X Window System 2.1 for A/UX is the standard toolkit from MIT known as the X Toolkit. The Xt is short for X Toolkit.

In order to better understand the components of X, here is a summary of each component:

- Xlib (/usr/lib/libX11.a)
The standard C language library interface to X, which defines an extensive set of functions that provides complete access and control over the display, windows, and input devices such as mouse and keyboard.
- X Toolkit (/usr/lib/libXt.a)
The high-level toolkits designed for use with X to build applications easily.

The X Toolkit consists of two parts:

- The Xt Intrinsics
Xt Intrinsics supports many different widget sets. Yes, X Window System 2.1 for A/UX supports the Athena Widget Set from MIT.
- The X Widgets set
The X Widgets set implements user interface components which include scroll bars, menu, and buttons. The Xt Intrinsics provides a

framework that allows the programmer to combine these components to produce a complete user interface. The entire MIT Athena Widgets Set for X Window System 2.1 for A/UX has been built and kept in the /usr/lib/libXaw.a library. You can see all modules (Box, Form, Scrollbar, and so on) of the Widget set from the output of "ar-tv /usr/lib/libXaw.a".

Both the Xt Intrinsics and the X Widgets set are written in C and built on top of Xlib. In short, the X Toolkit includes a layer known as the Xt Intrinsics which defines an architecture for combining user interface components known as widgets to create an application user interface.

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