



Tech Info Library

A/UX: Development Tools (8/94)

Revised: 8/24/94
Security: Everyone

A/UX: Development Tools (8/94)

=====
Article Created: 18 May 1989
Article Reviewed/Updated: 23 August 1994

TOPIC -----

This article lists tools Apple recommends for development for UNIX systems (not necessarily A/UX). This list was originally published for A/UX 1.0 but is still relevant for subsequent releases.

DISCUSSION -----

Under A/UX, the development tools can be summarized in the following categories:

1. Programming languages (compilers and interpreters)
 - cc (1) - The C compiler.
 - f77 (1) - The FORTRAN 77 compiler.
 - efl (1) - The Extended FORTRAN language.
 - cpp (1) - The C language preprocessor.
 - bs (1) - A compiler/interpreter for modest-sized programs.
 - sno (1) - The SNOBOL interpreter.

2. The Software Generation System (SGS) is a group of programs that recognizes a standard binary executable format known as Common Object File Format (COFF).
 - as (1) - Assembler.
 - dis (1) - Disassembler.
 - ADB (1) - Debugger.
 - sdb (1) - Symbolic debugger.
 - ar (1) - Library archiver.
 - ld (1) - Linkage Editor.
 - prof (1) - Profiler.
 - nm (1) - Display symbol table of common object file.
 - strip (1) - Strip symbol and line number from object files.

- ctrace (1) - C tracing utility.
- 3. The Source Code Control System, sccs(1), helps software developers control changes to source code and other text files.
- 4. A program maintenance utility, make (1), is a utility through which system developers define the dependencies among the components of a software system and specify the processing that should take place when one or more components change.
- 5. Terminal-independent I/O, curses (3X), lets programmers write programs that read from and write to terminals without concern for the specific type or brand of terminal. The curses routines can use either a database called "terminfo" or a database called "termcap" that contains a description of control sequences for various types of terminals.
- 6. Other program development tools include:
 - awk (1) - A pattern scanning and processing language.
 - yacc (1) - Yet another compiler-compiler, is a compiler-writing tool that uses a BNF-like specification to generate a language parser.
 - lex (1) - A program that uses a set of user-defined regular expression to generate a lexical analyzer that will analyze the tokens in the input stream.
 - lint (1) - A C program syntax checker.
 - cb (1) - A C program formatter.
- 7. Text processing tools
 - Text editors
 - ed (1) - A simple, interactive line editor.
 - ex (1) and vi (1) - a text-editing family composed of a line editor and full-screen editor.
 - sed (1) - A stream editor that transforms text based upon a command script usually stored in a file.
 - Documentaries Workbench (DWB)
 - nroff (1) - Format text for output to terminals and line printers.
 - troff (1) - Device-independent text formatter for phototypesetter.
 - psdit (1) - Convert troff intermediate format to PostScript format.
 - tbl (1) - Format text into tables.
 - pic (1) - Format simple line drawings.
 - eqn (1), neqn (1), checkeq (1) - Format and check command syntax of mathematical equations.
 - man (1) - Format text into UNIX-style manual entries.

- Other text-processing utilities.
 - spell (1) - A spelling checker.
 - grep (1) - A program that searches for strings or regular expressions within files.
 - diff (1) - A program that reports the differences between two files.

These are all included free with the A/UX software package. Other companies may charge extra.

For a complete list of A/UX commands and detailed information, please refer to "A/UX Command References (A - L)", "A/UX Command Reference (M - Z)", and "A/UX Programmer's Reference".

Aside from the list above, third parties below have some development products available for A/UX. For more details, search the Tech Info Library under the company named.

Product name	Company name
=====	=====
ADA Compiler for A/UX	Alsys
Allegro CL, an extended common LISP	Franz Inc.
Data Access Language (DAL), formerly known as "CL/1.", a connectivity language	ITI
Designer C++	Oasys, Inc.
NEXPERT OBJECT, an expert system	Neuron Data
NKR FORTRAN	PenWare, Inc.
Optimizing C	Unisoft Corp.
Optimizing FORTRAN	Unisoft Corp.
Optimizing Pascal	Unisoft Corp.
RAT FORTRAN	Absoft
RM/COBOL-85 for A/UX	Unisoft Corp.
S-Plus	Statistical Science

Article Change History:

- 23 Aug 1994 - Reviewed and updated. Changed DAL contact to ITI.
- 20 Jan 1993 - Updated vendor info.
- 27 Aug 1992 - REVIEWED for technical accuracy.

Support Information Services

Copyright 1989-94 Apple Computer, Inc.

Tech Info Library Article Number:3746