A/UX: Development Tools (8/94)

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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.

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Product name                         Company name
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ADA Compiler for A/UX                Alsys
Allegro CL, an extended common LISP  Franz Inc.
Data Access Language (DAL),          ITI
   formerly known as "CL/1.",
   a connectivity language
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
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