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UNIXTM OPERATING SYSTEMS BIBLIOGRAPHY

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C. L. Scheiderman MH X6058
January 1982

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"UNED - EDITING AND DOCUMENTATION PREPARATION"

- UNED1000 A TUTORIAL INTRODUCTION TO THE UNIX TEXT EDITOR
KERNIGHAN, B. W.
FEBRUARY 8, 1979 A GOOD DOCUMENT FOR FIRST TIME USERS. SEE ALSO UNED(1108)
- UNED1010 A TROFF TUTORIAL
KERNIGHAN, B. W.
AUGUST 4, 1978 THIS DOCUMENT IS AN INTRODUCTION TO THE MOST BASIC USE OF TROFF. IT ASSUMES THAT THE READER IS FAMILIAR WITH ROFF ON UNIX AND GCOS.
- UNED1011 TYPESETTING MATHEMATICS - USER'S GUIDE (SECOND EDITION)
KERNIGHAN, B. W. + CHERRY, L. L.
AUGUST 15, 1978 THIS IS THE USER'S GUIDE FOR A SYSTEM FOR TYPESETTING MATHEMATICS, USING THE PHOTOTYPESETTERS ON THE UNIX AND GCOS OPERATING SYSTEMS. SEE ALSO UNED(1029)
- UNED1018 COMPUTER DETECTION OF TYPOGRAPHICAL ERRORS
MORRIS, R. + CHERRY, L. L.
TM 73-1271-4 APRIL 3, 1974
- UNED1028 TYPING DOCUMENTS ON THE UNIX SYSTEM: USING THE - MS MACROS WITH TROFF AND NROFF
LESK, M. E.
NOVEMBER 13, 1978 THIS DOCUMENT DESCRIBES A SET OF EASY TO USE MACROS FOR PREPARING DOCUMENTS ON THE UNIX SYSTEM. IT INCLUDES THE --GUIDE TO PREPARING DOCUMENTS WITH - MS . . . SEE ALSO UNED(1111)
- UNED1029 A SYSTEM FOR TYPESETTING MATHEMATICS
KERNIGHAN, B. W. + CHERRY, L. L.
JANUARY, 1979 THIS PAPER DESCRIBES THE DESIGN AND IMPLEMENTATION OF A SYSTEM FOR TYPESETTING MATHEMATICS. SEE ALSO UNED(1011)
- UNED1042 UNIX FOR BEGINNERS - SECOND EDITION
KERNIGHAN, B. W.
FEBRUARY 8, 1979 THIS PAPER IS MEANT TO HELP NEW USERS GET STARTED ON UNIX.
- UNED1075 TYPESETTING ACS AND APS MEETING ABSTRACTS - ISSUE 2
EDELSON, D.
TM 77-1351-1 JANUARY 3, 1977 THIS MEMO DESCRIBES HOW MEETING ABSTRACTS CAN NOW BE PHOTOCOPOSED USING A CONVENIENT PACKAGE OF TROFF COMMANDS. THIS SYSTEM IS IMPLEMENTED ON THE H6000 AND DEPT. 127'S UNIX. THIS MEMORANDUM IS A REVISION OF MM 75-1352-39.
- UNED1082 WEBSTER'S SECOND ON THE HEAD OF A PIN
MORRIS, R. + THOMPSON, K.
TM 74-1271-13 JULY 15, 1974 THIS MEMO DESCRIBES A LIST OF WORDS FROM WEBSTER'S SECOND UNABRIDGED DICTIONARY (WITHOUT DEFINITIONS) AS A TEST CASE FOR SPECIAL PURPOSE TEXT COMPRESSION TECHNIQUES.
- UNED1083 AN ALGORITHM FOR DIFFERENTIAL FILE COMPARISON
HUNT, J. W. + MCILROY, M. D.
TM 75-1271-11 OCTOBER 1, 1975 THE PROGRAM DIFF REPORTS DIFFERENCES BETWEEN TWO FILES EXPRESSED AS A MINIMAL LIST OF LINE CHANGES TO BRING EITHER FILE INTO AGREEMENT WITH THE OTHER.
- UNED1085 NUMERIC PATTERN RECOGNITION DATA BASE FOR UNIX SYSTEMS
GREENBERG, M. E. + ROBERTS, C. S.
TM 76-1353-1 JANUARY 5, 1976 THIS MEMORANDUM DESCRIBES THE DATA BASE CONTENTS AND FORMAT.
- UNED1089 COMPUTER TYPESETTING OF TECHNICAL JOURNALS ON UNIX
LESK, M. E. + KERNIGHAN, B. W.
TM 76-1274-2, TM 76-1273-1 MARCH 29, 1976
- UNED1091 A SECRETARIAL TYPING SYSTEM USING UNIX
ENGELBERT, S. F.
FEBRUARY 27, 1976 MEMORANDUM FOR FILE
- UNED1098 PWB/MM - PROGRAMMER'S WORKBENCH MEMORANDUM MACROS (T.2)
MASHEY, J. R. + SMITH, D. W.
TM 77-9144-5, TM 77-8234-23 OCTOBER 1977 THIS MEMORANDUM IS A USER'S GUIDE AND REFERENCE MANUAL FOR PWB/MM, A GENERAL PURPOSE PACKAGE OF TEXT FORMATTING MACROS FOR USE WITH THE UNIX TEXT FORMATTERS NROFF AND TROFF. SUPERSEDES TM 76-9144-1 SEE ALSO UNED(1190) + UNED(1218)
- UNED1104 THE LEARN PROGRAM FOR COMPUTER INSTRUCTION:(2ND EDITION)
KERNIGHAN, B. W. + LESK, M. E.
TM 79-1274-6, TM 79-1273-6 MAY 31, 1979 THIS PAPER DESCRIBES THE LEARN PROGRAM FOR INTERPRETING CAI SCRIPTS ON UNIX, AND A SET OF SCRIPTS WHICH PROVIDE A COMPUTERIZED INTRODUCTION TO USE OF THE UNIX OPERATING SYSTEM.
- UNED1106 TBL - A PROGRAM TO FORMAT TABLES
LESK, M. E.
JANUARY 16, 1979 TBL IS A DOCUMENT FORMATTING PREPROCESSOR FOR TROFF OR NROFF WHICH MAKES EVEN FAIRLY COMPLEX TABLES EASY TO TO SPECIFY AND ENTER.
- UNED1107 PROGRAMMER'S WORKBENCH PAPERS FROM THE SECOND INTERNATIONAL CONFERENCE ON SOFTWARE ENGINEERING.
(G.4)
, T. A. DOLOTTA, ET AL.
TM 76-9141-6, TM 76-9144-3, TM 76-9411-1, TM 76-9421-2 JULY 30, 1976 FOUR PAPERS ARE INCLUDED IN THIS MEMO. THEY CONSIST OF FOUR SPECIFIC PWB FACILITIES AND A DESCRIPTION OF ONE USER GROUP'S EXPERIENCE WITH PWB.
- UNED1108 ADVANCED EDITING ON UNIX
KERNIGHAN, B. W.
SEPTEMBER 28, 1979 THIS PAPER IS MEANT TO HELP SECRETARIES, TYPISTS AND PROGRAMMERS TO MAKE EFFECTIVE USE OF THE UNIX FACILITIES FOR PREPARING AND EDITING TEXT.
- UNED1109 PROGRAMMER'S WORKBENCH - SYNOPSIS OF FACILITIES (G.1)
DOLOTTA, T. A. + HAIGHT, R. C.
TM 77-9144-3, TM 77-8234-17 SEPTEMBER 15, 1977 THIS MEMORANDUM GIVES AN OVERVIEW OF THE PROGRAMMER'S WORKBENCH, A PROGRAM DEVELOPMENT AND TEXT PROCESSING FACILITY DESIGNED AND USED WITH THE BISP AREA AT BTL. SUPERSEDES TM 76-9141-7

"UNED - EDITING AND DOCUMENTATION PREPARATION"

- UNED1111 A GUIDE TO PREPARING DOCUMENTS ON UNIX
LESK, M. E.
APRIL 1977 THIS CARD GIVES SOME SIMPLE EXAMPLES OF DOCUMENT PREPARATION ON THE UNIX SYSTEM,
EMPHASIZING THE USE OF THE - MS MACROS PACKAGE. REVISION OF SEPTEMBER 1976
- UNED1112 NEW GRAPHIC SYMBOLS FOR EQN AND NEQN (T.8)
SCROCCA, C.
TM 76-7133-1 SEPTEMBER 15, 1976 THIS DOCUMENT DISPLAYS A SET OF SPECIAL CHARACTERS FREQUENTLY USED
IN TECHNICAL TYPING. IT SHOWS HOW TO USE THEM AND DISCUSSES WHAT IS INVOLVED IN MAKING A SPECIAL
CHARACTER.
- UNED1115 NROFF/TROFF FORMATTING CODES FOR DEPARTMENTAL ORGANIZATION DIRECTORIES ON PWB/UNIX.
SMITH, D. W.
SEPTEMBER 1, 1976 MEMORANDUM FOR FILE THIS MEMO DESCRIBES A PWB/UNIX DOCUMENTATION FACILITY FOR
DEPARTMENTAL DIRECTORIES.
- UNED1117 SYSTEM FOR ENTERING DATA THROUGH COMPUTER DISPLAYED FORMS
STARK, E. W. + LYCKLAMA, H.
TM 76-1382-6 OCTOBER 22, 1976 THIS DOCUMENT DESCRIBES TWO PROGRAMS WHICH MAKE UP A SYSTEM FOR
MANAGING A DATA BASE THROUGH THE USE OF COMPUTER DISPLAYED FORMS.
- UNED1119 NROFF/TROFF USER'S MANUAL
GSSANNA, J. F.
JANUARY 1979 NROFF AND TROFF ARE TEXT PROCESSORS AVAILABLE ON UNIX. TROFF IS ALSO AVAILABLE ON GCOS.
NROFF FORMATS TEXT FOR A VARIETY OF TYPEWRITER-LIKE TERMINALS. TROFF FORMATS TEXT FOR PRINTING ON A
GRAPHIC SYSTEM PHOTOTYPESETTER.
- UNED1121 PROGRAMMER'S WORKBENCH DOCUMENTATION ROADMAP (B.1)
MASHEY, J. R.
TM 77-8234-18 SEPTEMBER 30, 1977 THIS DOCUMENT ATTEMPTS TO BE A TERSE UP-TO-DATE OUTLINE OF CRUCIAL
DOCUMENTS AND INFORMATION SOURCES.
- UNED1139 EASY PHOTOTYPESET VIEW GRAPHS ON UNIX
VOGEL, G. C.
MF 77-8234-055 MAY 18, 1977 A SET OF TROFF MACROS HAS BEEN CREATED TO PRODUCE PHOTOTYPESET 7X7 INCH
VIEW GRAPHS ON DEPT. 8234 UNIX. A COMPANION SET OF NROFF MACROS ARE ALSO PROVIDED. THIS MEMORANDUM IS
A REVISION OF MF-76-8234-019
- UNED1148 NROFF MACROS FOR PRODUCING GENERIC PROGRAM DOCUMENTATION.
CUMMINGHAM, S. J.
TM 77-8222-1 MARCH 18, 1977 A SET OF NROFF MACROS HAVE DEVELOPED FOR PRODUCING PROGRAM APPLICATIONS
INSTRUCTIONS (PAS), PROGRAM SPECIFICATIONS (PDS), INPUT MANUALS (IMS) AND OUTPUT MANUALS (OMS) FOR
THE NO.2 SWITCHING CONTROL CENTER.
- UNED1152 PWB/UNIX MANUAL PAGE MACROS (I.9)
PISHORIK, E. M.
TM 77-9141-7 MARCH 1, 1977 THIS MEMORANDUM IS A REFERENCE FOR ALL WHO WISH TO PREPARE MANUAL PAGES
LIKE THOSE IN THE UNIX PROGRAMMER'S MANUAL OR THE PWB/UNIX USER'S MANUAL.
- UNED1155 CIRCUIT DESIGN AIDS ON UNIX
FRASER, A. G. + RIDDLE, G. G.
TM 77-1273-3, TM 77-9155-2 MARCH 29, 1977 THIS MEMORANDUM DESCRIBES PROGRAMS WRITTEN IN THE C
LANGUAGE WHICH USE A TEKTRONIC 4014 GRAPHIC TERMINAL. IT ALSO INCLUDES SUMMARY DESCRIPTIONS AND
EXPLAINS STRATEGIES EMPLOYED BY THE PROGRAMS.
- UNED1169 AN INTERACTIVE COMPUTER CONTROLLED DATA ACQUISITION SYSTEM WITH A CAMAC REAL TIME TM-DISPLAY
BOIE, R. A. + ROBBINS, M. - KERR, R.
TM 77-1131-17 MAY 12, 1977 AN INTERACTIVE COMPUTER CONTROLLED DATA ACQUISITION SYSTEM WITH A REAL
TIME CATHODE RAY TUBE (CRT) DISPLAY IS DESCRIBED. LOCAL DATA ANALYSIS FUNCTIONS ARE PROVIDED AS WELL
AS 2-WAY TRANSMISSION OF DATA TO POP-11/46 RUNNING UNDER MERT/UNIX OPERATING SYSTEM.
- UNED1170 FORMATTING PROGRAM GENERIC DOCUMENTS ON UNIX
VOGEL, G. C.
MF 77-8234-57 MAY 24, 1977 THIS MEMORANDUM PRESCRIBES SIMPLE PROCEDURES TO PRODUCE DOCUMENTS
CONSISTENT WITH BELL SYSTEM PROGRAM DOCUMENTATION FORMAT. A PROCEDURE FOR CONVERTING A TECHNICAL
MEMORANDA INTO STANDARD FORMAT IS GIVEN AND A PROCEDURE FOR PREPARING FORMATTED PERMUTED INDEXES.
- UNED1174 REFERENCE SHEET FOR PWB/MM MACROS
ROBIN, R. F.
JULY 1977
- UNED1175 COMPUTERIZED OFFICE FILING SYSTEM
MILLER, R. E.
TM 77-1353-4 MAY 10, 1977 THIS MEMORANDUM DESCRIBES AN ON-LINE COMPUTER SYSTEM FOR FILING AND
RETRIEVING DOCUMENTS IN AN OFFICE ENVIRONMENT.
- UNED1177 EDTV - A DISPLAY-ORIENTED TEXT EDITOR FOR UNIX
REISER, J. F.
TM 77-1353-6 AUGUST 1, 1977 THIS MEMORANDUM IS A DESCRIPTION OF THE FEATURES AND COMMANDS OF EDTV, A
DISPLAY-ORIENTED TEXT EDITOR WHICH RUNS UNDER THE UNIX OPERATING SYSTEM. IT ALLOWS THE REGULAR
EXPRESSION EDITING FEATURES OF ED, THE STANDARD UNIX EDITOR.
- UNED1179 NEW TEXT FORMATTING SOFTWARE FOR THE PWB SYSTEMS
SMITH, D. W.
FEBRUARY 2, 1977 MEMORANDUM FOR FILE A C VERSION OF NROFF AND TROFF ARE NOW AVAILABLE ON PWB SYSTEM
A. THE LATEST VERSIONS OF TBL AND EQN/NEQN WHICH UTILIZE FEATURES OF THE C VERSION NROFF AND TROFF
ARE ALSO AVAILABLE.
- UNED1184 A COMPUTER ASSISTED COMMUNICATION SYSTEM. (CACS)
M. J. SHANNON JR.
TM 77-1352-5 JULY 22, 1977 CACS HAS BEEN REWRITTEN TO RUN ON A DEC LSI-11. RUNNING LSI-UNIX CACS
ALLOWS SEVERELY HANDICAPPED CEREBRAL PALSY VICTIMS TO COMMUNICATE WITH THE OUTSIDE WORLD VIA A
TYPEWRITER-LIKE KEYBOARD TEXT ON A TELEVISION SCREEN. DIFFERENCES BETWEEN ORIGINAL IMPLEMENTATION AND
FUTURE POSSIBLE IMPROVEMENTS ARE NOTED.

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- UNED1188 PWB/UNIX BEGINNER'S COURSE (8.2)
M. E. PEARLMAN - STRAUSS, S. H.
DECEMBER 1977 AN OUTLINE WITH VIEW GRAPHS.
- UNED1190 TYPING DOCUMENTS WITH PWB/MM (T.3)
SMITH, D. W. - PISKORIK, E. M.
OCTOBER 1977
- UNED1191 PWB/MM TUTORIAL (T.4)
SMITH, N. W.
DECEMBER 1977 INTRODUCTION TO PWB/UNIX TEXT PROCESSING.
- UNED1192 PWB/UNIX VIEW GRAPH AND SLIDE MACROS (T.9)
DOLOTTA, T. A. + SMITH, D. W.
DECEMBER 1977 GREATLY EASES THE TASK OF MAKING TRANSPARENCIES WITH TROFF.
- UNED1205 CUT AND PASTE - TWO UNIX WORD PROCESSING COMMANDS
LUDERER, G. W. R.
MF 77-8234-088 SEPTEMBER 30, 1977 CUT AND PASTE ARE TWO NEW UNIX WORD PROCESSING COMMANDS THAT
COMPLEMENT GREP AND CAT. CUT DISSECTS A FILE VERTICALLY, AND PASTE IS THE REVERSE OPERATION OF CUT.
- UNED1213 SOME APPLICATIONS OF INVERTED INDEXES ON THE UNIX SYSTEM
LESK, M. E.
JANUARY 1979 THIS MEMORANDUM DESCRIBES A SET OF PROGRAMS WHICH MAKE INVERTED INDEXES TO UNIX TEST
FILES, AND THEIR APPLICATION TO RETRIEVING AND FORMATTING CITATIONS FOR DOCUMENTS PREPARED USING
TROFF.
- UNED1216 SUMMARY OF PWB/MM MACROS, STRINGS, AND REGISTERS (T.2)
SMITH, D. W. + MASHEY, J. R.
NOVEMBER 1977 THIS REFERENCE CARD IS PART OF THE DOCUMENT UNED(1098) T.2
- UNED1263 NEW PERMUTED INDEX PROGRAM ON UNIX
MARAZZANO, J. F.
MF 78-8234-99 MAY 1, 1978 PROMPTED BY REQUESTS FOR ENHANCEMENTS AND A NEED FOR IMPROVED FORMATTING,
A NEW PERMUTED INDEX PROGRAM, PTX, HAS BEEN WRITTEN ON UNIX. THE MEMORANDUM DESCRIBES THE NEW
FEATURES OF THIS PROGRAM AS WELL AS THE MOTIVATION FOR THESE IMPROVEMENTS.
- UNED1280 MVIEW - A SET OF MACROCOMMANDS FOR THE GENERATION OF VIEW GRAPHS
STURMAN, J. N.
TM 78-8231-2 JUNE 21, 1978 THIS MEMORANDUM IS A USER'S REFERENCE MANUAL FOR MVIEW, A GENERAL-PURPOSE
MACROCOMMAND PACKAGE FOR THE PHOTOTYPESETTING OF VIEW GRAPHS. THIS MEMORANDUM SUPERSEDES TM
77-8231-6.
- UNED1292 USE OF DISPLAY EDITORS
OZIMEK, L. C.
AUGUST 11, 1978 THIS MEMORANDUM DISCUSSES ADVANTAGES AND DISADVANTAGES OF DISPLAY EDITING VS. LINE
EDITING. IT ALSO DESCRIBES FEATURES AND CAPABILITIES OF THE DISPLAY EDITORS CURRENTLY AVAILABLE ON
UNIX.
- UNED1300 ATS TO PWB/MM CONVERTER
SMITH, N. W.
SEPTEMBER 29, 1978 THIS DOCUMENT TELLS HOW TO RUN THE ATSMV CONVERTER, DESCRIBES THE PWB/MM M
PRODUCED FOR EACH ATS COMMAND, EXPLAINS ANY ACTION REQUIRED FOR THE SMALL OF ATS FEATURES THAT ARE
NOT DIRECTLY SUPPORTED BY PWB/MM, AND GIVES POINT ADDITIONAL PWB/MM FEATURES.
- UNED1301 A GUIDE TO THE OF PSEUDO-ATS ON UNIX
CENTER, HO COMPUTER
OCTOBER 1978 THIS MEMORANDUM EXPLAINS HOW TO MOVE DOCUMENTS FROM AN ATS SYSTEM ONTO UNI
- UNED1307 SED - A NON-INTERACTIVE TEXT EDITOR
MCMAHON, L. E.
TM 78-1270-1 AUGUST 15, 1978 THIS MEMORANDUM CONSTITUTES A MANUAL FOR USERS OF SED.
- UNED1314 TBL OPTIONS SUMMARY
OKRENT, H. F.
DECEMBER 6, 1978 SEE ALSO UNED(1108)
- UNED1317 UNED - A DATA FILE EDITOR
WARD, J. C.
NOVEMBER 16, 1978 THIS MEMO DESCRIBES THE UNIX VERSION AND CONTAINS A USER TUTORIAL AND COMMAND
GUIDE.
- UNED1386 FINAL REPORT: SECRETARIAL WORD PROCESSING FACILITY ENHANCEMENT
SHANAHAN, J. M.
APRIL 30, 1979 THIS PAPER DISCUSSES THE EVOLUTION OF THE WORD PROCESSING OPERATION FROM THE INITIAL
CONFIGURATION HAVING HARDCOPY TERMINALS AT EACH SECRETARIAL STATION TO THE CURRENT CONFIGURATION
HAVING CRT'S AT THESE STATIONS AND HAVING HIGH QUALITY PRINTOUT PRODUCED REMOTELY IN THE COMPUTER
ROOM.
- UNED1441 A TUTORIAL INTRODUCTION TO THE GRAPHICAL EDITOR (GED)
FEUER, A. R.
TM 79-3782-3 JULY 30, 1979 THIS MEMORANDUM IS A TUTORIAL FOR GED, AN INTERACTIVE PROGRAM USED TO
DISPLAY, EDIT, AND CONSTRUCT LINE DRAWINGS ON TEKTRONIX 4010 SERIES DISPLAY TERMINALS.
- UNED1456 A PORTABLE VERSION OF THE UNIX TEXT EDITOR ED
HORTON, M. R.
TM 79-3723-2 SEPTEMBER 14, 1979 THIS PAPER DESCRIBES A VERSION OF THE UNIX TEXT EDITOR, ED, WHICH
HAS BEEN WRITTEN TO RUN ON UNIX, GCOS, AND TSO.
- UNED1479 AN INTRODUCTION TO THE PWB/MM TEXT FORMATTER
WENDLAND, K. E.
AUGUST 23, 1979 A TUTORIAL INTRODUCTION TO THE PWB/MM TEXT FORMATTER.

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- UNED1497 WRITING TOOLS - THE STYLE AND DICTION PROGRAMS
CHERRY, L. L. + VESTERMAN, W.
JANUARY 16, 1980 THE SYSTEM OF WRITING TOOLS DESCRIBED IN THIS MEMO INCLUDES PROGRAMS AND A DATA BASE TO ANALYZE WRITING STYLE AT THE WORD AND SENTENCE LEVEL.
- UNED1515 THE DIRECT II VIRTUAL PHOTOTYPESSETTER
DWYER, T.J. - FISHMAN, D. H.
TM 79-9467-8, TM 79-3633-1 DECEMBER 25, 1979 THIS MEMO DISCUSSES ISSUES INVOLVED IN DEVELOPING TYPESETTER- INDEPENDENT COMPOSITION SOFTWARE, AND DESCRIBES A SUBROUTINE PACKAGE, WRITTEN IN C ON A PDP 11/70 UNDER THE UNIX/RT OPERATING SYSTEM, WHICH IMPLEMENTS A VIRTUAL PHOTOCOPIER.
- UNED1518 MEMO - A TOOL FOR PRODUCING AND MAINTAINING DOCUMENTS
CRISTOFOR, E.
TM 80-3168-2 FEBRUARY 20, 1980 THIS PAPER DESCRIBES THE MEMO COMMAND, THAT CAN BE USED FOR PRODUCING AND MAINTAINING A DOCUMENT WITH A MINIMUM OF PROCESSING.
- UNED1528 CHANGES TO TEXT PROCESSING SOFTWARE FOR UNIX RELEASE 3.0
SOCK, N. E.
APRIL 7, 1980 THIS MEMORANDUM SUMMARIZES THE CHANGES MADE TO THE TEXT PROCESSING SOFTWARE FOR THE UNIX RELEASE 3.0.
- UNED1541 WRITER'S WORKBENCH: COMPUTER PROGRAMS FOR TEXT EDITING AND ASSESSMENT (RELEASE 1.0)
MACDONALD, M. H. - FRASE, L. T. - KEENAN, S. A.
TM 80-3771-2 MAY 9, 1980 THE WRITER'S WORKBENCH IS A SET OF PROGRAMS DESIGNED TO HELP WRITERS IMPROVE THEIR DOCUMENTS. THE WRITER'S WORKBENCH COMMANDS AND THEIR OPTIONS ARE DESCRIBED AND SUMMARIZED.
- UNED1542 AN INTERACTIVE SCREEN EDITOR FOR UNIX (EMACS)
MONTGOMERY, V.
TM 80-5343-2 APRIL 14, 1980 THIS MEMORANDUM DESCRIBES AN INTERACTIVE SCREEN EDITOR FOR UNIX KNOWN AS EMACS. THE COMMANDS AND EDITING ENVIRONMENT OF EMACS, AND SOME EXPERIENCE WITH ITS USE ARE PROVIDED.
- UNED1553 XE - A SCREEN EDITOR FOR UNIX
RUGASER, S.
MAY 16, 1980 IN THIS MEMO SCREEN EDITORS ARE CHARACTERIZED AS THE THIRD GENERATION OF COMPUTERIZED TEXT EDITORS. THEIR ADVANTAGES ARE SUMMARIZED AND A SHORT GENEALOGY IS GIVEN. A PARTICULAR SCREEN EDITOR, XE, WHICH RUNS ON THE UNIX OPERATING SYSTEM, IS DESCRIBED AS AN EXAMPLE OF AN EDITOR THAT IS EASY TO LEARN AND USE.
- UNED1554 PRE AND POST PROCESSORS FOR THE UNIX EDITOR TO PROVIDE CONTROLLED USER INTERACTION
PATTON, G. C.
TM 80-9251-1 JUNE 11, 1980 THREE NOVEL EXAMPLES ARE PRESENTED IN WHICH PIPES ARE USED TO INTERFACE THE UNIX EDITOR (ED) TO PRE AND POST PROCESSOR INTERACTIVE SHELLS. PROBLEMS RELATED TO PRE AND POST PROCESSING OF EDITOR INPUT AND OUTPUT ARE DISCUSSED AND TWO NEW SHELL FEATURES ARE SUGGESTED.
- UNED1564 AN EXTENDED UNIX TEXT EDITOR - EX
DATTATREYA, S. S.
JULY 31, 1980 THIS MEMORANDUM DESCRIBES AN EXTENSION TO THE UNIX TEXT EDITOR, ED. THE EDITOR DESCRIBED, CALLED EX, CAN DISPLAY LINE NUMBERS, PROVIDE AUTOMATIC INDENTATION, CAN DISPLAY A SCREEN FULL OF TEXT, AND INCORPORATES SOME NICE PDS FEATURES.
- UNED1600 TOOLS FOR PREPARATION OF TECHNICAL DOCUMENTS ON THE UNIX SYST
LESK, MICHAEL
TM 80-1274-9 SEPTEMBER 30, 1980 EXPERIENCE WITH SOFTWARE DEVELOPMENT, TRAINING, AND PRODUCTION IS REVIEWED.
- UNED1627 PROSPECTUS ON OASYS, AN OFFICE AUTOMATION SYSTEM
BROOKS, C. A. + GUIDI, P. V.
OCTOBER 7, 1980 THIS MEMORANDUM IS A PROSPECTUS ON OASYS FROM THE DEVELOPERS' VIEWPOINT. IT DESCRIBES THE MOTIVATION FOR OASYS, NEAR-TERM STRATEGIES AND CAPABILITIES, SCHEDULES, LONGER-TERM DIRECTION, AND REQUIRED RESOURCES.
- UNED1628 USER GUIDE FOR THE OSDD ADAPTER MACRO PACKAGE
SMITH, N. W.
NOVEMBER 7, 1979 THE OSDD ADAPTER MACRO PACKAGE IS A TOOL USED WITH THE PWB/MM MACRO PACKAGE TO PREPARE OPERATIONS SYSTEMS DELIVERABLE DOCUMENTATION (SEE SECTION 4.1 OF THE OSDD STANDARDS FOR DETAILS OF THE REQUIRED FORMAT).
- UNED1629 DOCCEN - A SCRIPT DRIVEN PROGRAM FOR TYPING DOCUMENTS
CHERRY, L. L.
TM 80-1271-9 NOVEMBER 18, 1980 THIS PAPER DESCRIBES THE DOCCEN PROGRAM FOR HELPING NEW OR OCCASIONAL USERS FORMAT THEIR DOCUMENTS ON THE UNIX SYSTEM.
- UNED1634 A MICROPROCESSOR-SUPPORTED SCREEN EDITOR (SCRED)
HAIGHT, R. C.
TM 81-46173-1 JANUARY 20, 1981 INTERACTIVE SCREEN (CRT TERMINAL) EDITOR PROGRAMS GENERALLY CAUSE MUCH HIG TIMESHARING SYSTEM OVERHEAD THAN HARD COPY-ORIENTED EDITORS. THIS MEMORANDUM DESCRIBES A SCREEN EDITOR IN WHICH THE ADDITIONAL OVERHEAD IS TRANSFERRED TO A MICROPROCESSOR ASSOCIATED WITH THE TERMINAL.
- UNED1640 F1 - A FORM LETTER GENERATOR FOR THE UNIX SYSTEM
CHEN, P. C.
TM 80-7422-1 DECEMBER 1, 1980
- UNED1649 MYMM - AN EASIER WAY TO CREATE MEMORANDA
HOERL, D. F.
TM 80-9324-2 NOVEMBER 6, 1980 THE SHELL PROGRAM MYMM PRODUCES KROPPED MEMORANDA ON THE UNIX OPERATING SYSTEM FASTER, EASIER, AND MORE EFFICIENTLY THAN DOES MM ALONE.
- UNED1650 TED REFERENCE MANUAL
GRUCHAZ, A. M. - SHARMA, D. K.
TM 81-11359-3 JANUARY 3, 1981 TED IS A SCREEN-BASED EDITOR THAT CAN BE USED TO CREATE AND EDIT TEXT FILE USING DISPLAY TERMINALS. THIS DOCUMENT CONTAINS A BRIEF INTRODUCTION TO TED AND A COMPLETE DESCRIPTION OF ALL ITS COMMANDS.

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- UNED1647 A TUTORIAL INTRODUCTION TO THE WRITER'S WORKBENCH
GINGRICH, P. S.
TM 81-45271-3 APRIL 1, 1981 THIS MEMORANDUM IS A TUTORIAL GUIDE TO THE WRITER'S WORKBENCH. THE WRITER'S WORKBENCH (RELEASE 2.0) CONSISTS OF 32 COMPUTER PROGRAMS, WHICH RUN UNDER THE UNIX OPERATING SYSTEM. A COMPANION MEMORANDUM, TM 81-45271-2, WRITER'S WORKBENCH: COMPUTER AIDS FOR WRITING (RELEASE 2.0) BY MACDONALD, KEENAN, GINGRICH, FOX, FRASE, AND COLLYMORE (1981), DESCRIBES THESE PROGRAMS. SEE ALSO UNED(1541)
- UNED1657 PORTING NROFF/TROFF TO UNIX ON DEC VAX 11/780, UNIVAC 1100, IBM 370, AND TO IBM TSO
DALRYMPLE, F. L.
TM 80-3683-1 SEPTEMBER 26, 1980 THE NROFF/TROFF PROGRAMS HAVE BEEN PORTED TO UNIX ON THE VAX 11/780, UNIVAC 1100, AND IBM 370 ARCHITECTURE COMPUTERS, AND TO THE NON-UNIX ENVIRONMENT OF TSO. THIS PAPER DESCRIBES SOME HIGHLIGHTS OF THE PORTING EFFORT.
- UNED1658 DEVELOPMENT OF A SPELLING LIST
MCILROY, M. D.
TM 81-11271-2 JANUARY 29, 1981 THIS PAPER TELLS HOW THE SPELLING CHECKER WORKS, HOW THE WORDS WERE CHOSEN, HOW THE SPELLING CHECKER WAS USED TO IMPROVE ITSELF, AND HOW THE (REDUCED) LIST OF 30,000 ENGLISH WORDS WAS SQUEEZED INTO 28,000 16-BIT MACHINE WORDS.
- UNED1659 CHANGE MANAGEMENT EDITOR (CMED)
BAROFSKY, A.
TM 81-45174-2 MARCH 2, 1981 THIS PAPER DESCRIBES THE CHANGE MANAGEMENT EDITOR (CMED), A COMMAND THAT PROVIDES A SIMPLE AND FAST METHOD TO CONTROL CHANGES TO SOURCE FILES ON UN
- UNED1660 UNIX RELEASE 4.0 - CHANGES TO THE TEXT PROCESSING SOFTWARE
BOCK, N. E.
DECEMBER 11, 1980 MANY CHANGES HAVE BEEN MADE TO THE TEXT PROCESSING SOFTWARE BY THE UNIX COMMANDS AND TEXT PROCESSING GROUP OF DEPARTMENT 3683 IN PREPARATION FOR UNIX RELEASE 4.0. THIS MEMORANDUM SUMMARIZES THESE CHANGES. A COMPANION DOCUMENT "UNIX RELEASE 4.0 - HIGHLIGHTS OF CHANGES TO COMMANDS", DECEMBER 11, 1980, BY F. M. CARLSON AND R. R. RUSH OUTLINES CHANGES TO UNIX COMMANDS. SEE ALSO UNOS(1661)
- UNED1665 TED INSTALLATION MANUAL
GRUCHACZ, A. M. - SHARMA, D. K.
TM 81-11359-4 FEBRUARY 17, 1981 THIS DOCUMENT CONTAINS A BRIEF DESCRIPTION OF HOW TO INSTALL TED ON A NEW SYSTEM, A TABLE OF THE CURRENT KEYCARDS, A DESCRIPTION OF HOW TO INTERFACE A NEW TERMINAL TO TED, AND INFORMATION ON CUSTOMIZING THE KEYBOARD AND SYNONYMS FILES.
- UNED1666 USER'S MANUAL FOR GETTING STARTED ON POLY
GAUNTLETT, C. H.
TM 81-45171-2 MARCH 18, 1981 THIS MEMORANDUM IS A TEACHING GUIDE FOR GETTING STARTED WITH THE GRAPHICS EDITOR. SEE ALSO UNSU(1631)
- UNED1705 UNIX COMMANDS FOR MANAGERS AND NON-PROGRAMMERS
COREY, D. A.
TM 81-54633-11 AUGUST 17, 1981 THIS DOCUMENT ATTEMPTS TO CALL OUT THE COMMANDS THAT MIGHT BE OF VALUE TO "MANAGERS AND NON-PROGRAMMERS". THE COMMANDS ARE LISTED AND A CAPSULE DESCRIPTION OF WHAT THEY DO IS PROVIDED. IN ADDITION, SOME TUTORIAL MATERIAL IS PROVIDED TO HELP NEWCOMERS OVER A COUPLE OF ROUGH SPOTS TYPICALLY ENCOUNTERED.
- UNED1706 VOTED - A VOICE COMMAND TEXT EDITOR
GRUCHACZ, A. M.
TM 81-11359-10 JUNE 4, 1981 THIS PAPER DESCRIBES THE VOICE COMMAND TEXT EDITOR, VOTED, SOME HARDWARE AND SOFTWARE ASPECTS OF THE VOICE RECOGNITION UNIT, AND THE UTILITY PROGRAMS NEEDED TO RUN THIS SYSTEM EFFECTIVELY.
- UNED1707 THE DISPLAY TEXT EDITOR TED: A CASE STUDY IN THE DESIGN AND IMPLEMENTATION OF DISPLAY-ORIENTED INTERACTIVE HUMAN-INTERFACE
SHARMA, D. K. - GRUCHACZ, A. M.
TM 81-11359-11 JULY 7, 1981 THIS MEMO PRESENTS THE CRITERIA THAT WERE USED IN DESIGNING THE HUMAN-INTERFACE OF THE DISPLAY TEXT EDITOR TED AND EXPLAINS HOW THE DESIGN TRADE-OFFS WERE MADE.
- UNED1708 EDX - A CRT EDITOR EXTENSION TO THE UNIX TEXT EDITOR
PEARSON, M.
JULY 25, 1978 THIS MEMO IS A DESCRIPTION OF THE FEATURES AND COMMANDS OF EDX.

"UNGI - GENERAL INFORMATION"

- UNGI1331 READ - C PROGRAMS FOR ANALYZING READABILITY
COKE, E. U. - KOETHER, M. E.
TM 78-1222-9 NOVEMBER 22, 1978 THIS MEMORANDUM DESCRIBES TWO C PROGRAMS WHICH ARE AVAILABLE FOR ANALYZING OF WRITTEN MATERIALS.
- UNGI1337 REPORT GENERATION ON UNIX
BORISON, E.
FEBRUARY 1, 1979 THIS MEMORANDUM DEMONSTRATES HOW AWK CAN BE USED FOR THE SAME PURPOSE ON UNIX AS THE TSS PROGRAM, REPORT.
- UNGI1340 MINUTES, ISCC COMMON COMMAND SUBCOMMITTEE
NELSON, N-P.
JANUARY 28, 1979
- UNGI1386 UNIX USERS GROUP MEETING - TORONTO, JUNE 19-23, 1979
EISEN, S. R.
JUNE 28, 1979 THIS PAPER IS A TRIP REPORT OF THE SUMMER 1979 (EAST COAST) MEETING OF THE UNIX USERS GROUP WHICH TOOK PLACE AT THE UNIVERSITY OF TORONTO, ONTARIO.
- UNGI1470 THE EVOLUTION OF THE UNIX TIME-SHARING SYSTEM
RITCHIE, D. M.
THIS PAPER PRESENTS A BRIEF HISTORY OF THE EARLY DEVELOPMENT OF THE UNIX OPERATING SYSTEM.
- UNGI1477 EXPERIENCES WITH THE UNIX TIME-SHARING SYSTEM
LIONS, J.
MARCH 1979
- UNGI1485 UNIX/TSS DOCUMENTATION ROAD MAP
SNYDER, G. A. - MASHEY, J. R.
TM 79-3646-1, TM 79-9322-2 NOVEMBER 9, 1979 THE PURPOSE OF THIS DOCUMENT IS TO PROVIDE A GUIDE TO UNIX COMMANDS AND FEATURES FOR NEW USERS.
- UNGI1583 CYCLES TO BURN: THE CHALLENGE OF ABUNDANCE
FEUER, ALAN R.
TM 80-3833-5 JULY 3, 1980 THE COMPUTING POWER AVAILABLE PER PERSON CONTINUES TO GROW RAPIDLY. THIS PAPER LOOKS AT SOME WAYS THAT THE INCREASED POWER WILL CHANGE WHAT WE EXPECT A COMPUTING SYSTEM TO DO FOR US.
- UNGI1630 UNIX AND C BIBLIOGRAPHY
BROAD, M. M.
JANUARY 1981 THIS BIBLIOGRAPHY CONTAINS 181 REFERENCES TO PUBLISHED DOCUMENTS ON THE UNIX OPERATING SYSTEM AND THE C PROGRAMMING LANGUAGE.
- UNGI1709 MMCC GENERAL - USE UNIX SERVICE II
GOLDSMITH, S. B.
SEPTEMBER 1, 1981 THIS PAPER IS INTENDED TO BE A DESCRIPTION OF HOW THE MURRAY HILL COMPUTER CENTER UNIX SYSTEMS ARE ADMINISTERED RATHER THAN AN INTRODUCTION TO UNIX. NEW USERS MAY USE IT AS A POINTER TO OTHER DOCUMENTS AND LEARNING AIDS, AN EXPERIENCED USER MAY KEEP IT AS A REFERENCE PAPER.
- UNGI1729 YET ANOTHER UNIX DATA BASE MANAGEMENT SYSTEM SURVEY
GOODMAN, J. D. - JAKUSOVITS, J. D.
TM 81-77423-1 JULY 16, 1981 THIS PAPER IS A SURVEY OF DATA BASE MANAGEMENT SYSTEMS THAT WERE DEVELOPED RUN UNDER THE UNIX OPERATING SYSTEM. THE SYSTEMS COVERED WERE A RESULT OF A SEARCH OF STL INTERNAL LITERATURE, SELECTED EXTERNAL DOCUMENTS, AND ADDITIONAL INFORMATION SUPPLIED BY OSMS AUTHORS.

"UNHA - HARDWARE"

- UNHA1048 A CONTINUOUS SERVICE REAL TIME CLOCK FOR DIGITAL COMPUTERS
VOLLARO, J. R.
TM 75-1273-4 MARCH 13, 1975 THIS PAPER DESCRIBES CONTINUOUS SERVICE; MEANING THE CLOCK CONTINUES TO FUNCTION DURING POWER BLACKOUTS, SYSTEM FAILURES AND SHUTDOWNS AND CAN BE READ WHENEVER THE COMPUTER IS OPERABLE.
- UNHA1058 C - LANGUAGE ORIENTED MICROPROGRAM FOR THE HP-21MX
FRASER, A. G. - RITCHIE, D. M.
TM 75-1273-1 FEBRUARY 25, 1975 THIS PAPER PROPOSES AN INSTRUCTION-SET ARCHITECTURE DESIGNED FOR IMPLEMENTATION ON THE HEWLETT-PACKARD 21MX MICRO-PROGRAMMED PROCESSOR.
- UNHA1107 PROGRAMMER'S WORKBENCH PAPERS FROM THE SECOND INTERNATIONAL CONFERENCE ON SOFTWARE ENGINEERING.
(G.4)
, T. A. DOLOTTA, ET AL.
FOR COMPLETE INFORMATION, SEE UNED (G.4)
- UNHA1181 MERT HARDWARE CONFIGURATION
LOIKITS, E. A.
MF 77-8234-037 APRIL 20, 1977 THIS MEMORANDUM CONTAINS TWO PARTS: A DESCRIPTION OF THE MINIMUM MERT HARDWARE CONFIGURATION FOR A PDP-11/70 OR PDP-11/45 ; AND A LIST, BY DEVICE TYPE, OF ALL PERIPHERAL DEVICES FOR WHICH DRIVERS EXIST IN CENTER 135.
- UNHA1163 UNIX ERROR LOGGING
BRANDT, R. B.
FOR COMPLETE INFORMATION, SEE UNOS
- UNHA1161 UNIX LINK TO MBS LINE PRINTER AND COMPUTER CENTER SERVICES
SHIRTZ, A. L.
MF 77-8234-13 AUGUST 11, 1977 THIS MEMORANDUM DESCRIBES THE SOFTWARE STRUCTURES WHICH PROVIDE NEW CAPABILITIES TO UNIX USERS IN DEPT. 3124.
- UNHA1182 SOME MERT PERFORMANCE MEASUREMENTS IN TRANSACTION ORIENTED PROCESSING.
HAYDEN, D. P.
MF 77-3124-12 JULY 25, 1977 THESE NOTES DESCRIBE SOME MEASUREMENTS RECENTLY TAKEN ON AN 11/70 BASED MERT SYSTEM.
- UNHA1196 PWB/UNIX OPERATIONS MANUAL (1.3)
PEARLMAN, M. E.
SEPTEMBER 1977 THIS MANUAL CONTAINS A COMPLETE DESCRIPTION OF CONSOLE OPERATIONS, AS WELL AS STEP-BY-STEP INSTRUCTIONS FOR NORMAL OPERATOR FUNCTIONS.
- UNHA1226 DESCRIPTION AND ANALYSIS OF THE DEC KMC11 MICROPROCESSOR
WEHR, L. A.
TM 77-8234-21 NOVEMBER 15, 1977 THIS DOCUMENT PROVIDES A COMPREHENSIVE DESCRIPTION AND ANALYSIS OF THE KMC11 MICROPROCESSOR, COVERING THE ARCHITECTURE AND MICROINSTRUCTION IN DETAIL.
- UNHA1240 BETA TEST OF THE COMM IOP-DUP SYNCHRONOUS COMMUNICATIONS CONTROLLER UNDER UNIX
LONG, P. F.
TM 78-8234-4 FEBRUARY 23, 1978 THIS MEMORANDUM DISCUSSES THE IMPLEMENTATION OF THE DRIVER WHICH CONTROLS A NUMBER OF DUP-11'S AND EVALUATES THE COMM IOP FOR USE AS A SYNCHRONOUS CONTROLLER WITH UNIX
- UNHA1242 A UNIX DEVICE DRIVER FOR THE PCL11-A - A PARALLEL INTERPROCESSOR COMMUNICATIONS LINK
UNGAR, D. M.
TM 78-3124-2 JANUARY 25, 1978 THE PCL11-A IS A NEW PDP-11 PERIPHERAL PROVIDING HIGH SPEED COMMUNICATION AMONG AS MANY AS 31 COMPUTERS. A UNIX DEVICE DRIVER HAS BEEN WRITTEN FOR THIS DEVICE.
- UNHA1254 AN ARRAY AND SWITCHING PROCESSOR
ALLES, M. G.
TM 78-1356-4 FEBRUARY 24, 1978 THIS MEMO DESCRIBES THE GENERAL ARITHMETIC AND INTERCONNECTION MODULE WHICH CAN BE THOUGHT OF AS AN ARRAY PROCESSOR OR SWITCHING PROCESSOR.
- UNHA1255 THE TELETYPE DATASPEED 40 LINE PRINTER AS A UNIX PERIPHERAL
DOWD, P. G.
TM 77-8234-12 MAY 13, 1977 THE PRINTER MAY BE OBTAINED IN AN 80 CHARACTER-PER-LINE MODEL OR A 132 CHARACTER-PER-LINE MODEL. ITS PRINT QUALITY IS EXCELLENT; IT HAS A FULL ASCII CHARACTER SET (96 CHARACTERS). DEPARTMENT 8234 HAS SUCCESSFULLY INSTALLED THIS SOFTWARE ON A MERT/UNIX SYSTEM.
- UNHA1261 EXPERIENCE WITH HARDWARE SERVICE CONTRACTORS ON PDP-11'S
MARANZANO, J. F. + HAIGHT, R. C.
TM 78-8234-9 APRIL 10, 1978 THIS MEMORANDUM IS INTENDED TO PROVIDE SOME INFORMATION TO THE OPERATING COMPANIES SYSTEM MAINTENANCE GROUPS CONCERNING THE BELL LABS EXPERIENCE WITH MAINTENANCE OF MINICOMPUTERS.
- UNHA1262 USING A LINE CLOCK TO ESTIMATE MEAN DISK ACCESS TIME
STUCK, B. W.
EN 3451 JANUARY 18, 1978
- UNHA1284 ERROR LOGGING IN UNIX/TS AND UNIX/RT
BRANDT, R. B.
TM 78-8234 JUNE 28, 1978 THIS MEMORANDUM DETAILS THE SPECIFICATIONS FOR AN IMPROVED VERSION OF ERRO FOR UNIX/TS AND UNIX/RT THAT PROVIDES SIGNIFICANTLY MORE COMPATIBILITY BET SYSTEMS, ESPECIALLY IN THE AREA OF THE USER INTERFACE.
- UNHA1299 POWER SUPPLY CONTROLLER USING A MAC 8 MICRO PROCESSOR
ROBBINS, M. P. - STENSGAARD, R.
TM 78-1131-36 AUGUST 23, 1978 A SYSTEM HAS BEEN DEVELOPED USING A MAC 8 MICRO PROCESSOR TO CONTROL A PRO
- UNHA1305 PROPOSAL FOR A MICROPROCESSOR BASED SYSTEMS DEVELOPMENT LABOR
GWODZ, P. W.
TM 78-4562-2 SEPTEMBER 29, 1978

"UNHA - HARDWARE"

- UNHA1330 THE TANDEM COMPUTER SYSTEM - A FIRST LOOK
USAS, A. M.
TM 78-1352-11 OCTOBER 23, 1978 THIS REPORT CONTAINS IN A GREATLY DIGESTED FORM INFORMATION GATHERED FROM EXTENSIVE TANDEM DOCUMENTATION AND IS PRESENTED IN THE FORM OF A BRIEF SUR OF THE FEATURES OF THE SYSTEM.
- UNHA1347 EVALUATION OF MICROPROCESSORS SUPPORTING THE C LANGUAGE: LSI-11, MAC-8, Z80
BRADLEY, M. H. + SHERSON, W. E. - WALCHUTER, J. S.
TM 78-3323-3 JUNE 5, 1978 THE PURPOSE OF THIS MEMORANDUM IS TO PRESENT A QUANTITATIVE EVALUATION OF THREE EXISTING MICROPROCESSORS WHICH HAVE AN AVAILABLE C COMPILER.
- UNHA1365 STANDARD UNIX CONFIGURATIONS - ISSUE 2
VOGEL, G. C.
MARCH 27, 1979 THIS PAPER LISTS RECOMMENDED PROCESSORS AND PERIPHERALS FOR THE PURPOSE OF EXPEDITING COMPUTER ACQUISITION REVIEWS FOR DEC BASED UNIX SYSTEMS. MINIMUM CONFIGURATION INFORMATION IS ALSO GIVEN FOR UNIX/TS AND UNIX/RT SY
- UNHA1380 PDP-11/70 DESIGN ERROR: HANDLING SEGMENTATION VIOLATIONS DIFFERENT FROM PDP-11/45 IMPLEMENTATION
HEDRICK, E. L. - RALEIGH, T. M.
TM 79-4145-3, TM 79-2524-2 APRIL 10, 1979 A DIFFERENCE IN THE OPERATION OF THE DEC PDP-11/70 MEMORY MANAGEMENT UNIT AND THAT OF THE PDP-11/45 BASED PROCESSORS HAS BEEN FOUND. THIS MEMORANDUM DESCRIBES THE MEMORY MANAGEMENT PROBLEM AND SUGGESTS AN ALTERNA CONTEXT SWITCHING IMPLEMENTATION FOR MERT IN THE EVENT THAT DEC CANNOT MAK PDP-11/70 UPWARD COMPATIBLE WITH THE PDP-11/45.
- UNHA1389 FORMAL SPECIFICATION OF X.25 COMPATIBLE LINK PROTOCOL
ERMANN, R.
TM 79-5251-2 JUNE 21, 1979 THE PURPOSE OF THIS MEMORANDUM IS TO CLEARLY DEFINE A LINK PROTOCOL COMPATIBLE WITH THE FOLLOWING STANDARD PROPOSALS: THE LATEST X.25/LAPE DRAFT, HOLC, AND ADCCP. THE FORMAL SPECIFICATION PRESENTED HERE COMPLETES ALL THOSE PROCEDURAL ASPECTS LEFT OPEN BY THE ABOVE CANDIDATE STANDARDS.
- UNHA1392 EVALUATION OF THE REMOTE DIAGNOSTIC CONSOLE FOR USE ON BELL SYSTEM PDP-11/70 COMPUTER SYSTEMS
CLARK, D. L.
MAY 11, 1979 THIS MEMO IS INTENDED, IN PART, TO DISPEL SOME OF THE MYTHOLOGY AND MISUNDERSTANDINGS SURROUNDING THE REMOTE DIAGNOSTIC CONSOLE (RDC).
- UNHA1394 A FILESYSTEMLESS UNIX FOR THE Z80 MICROPROCESSOR
RUBIN, S. M.
TM 79-1355-5 MAY 1, 1979 THIS PAPER DESCRIBES THE IMPLEMENTATION OF A UNIX SUBSET ON THE Z80.
- UNHA1417 AN ICE-85 BASED 8085 SOFTWARE DEVELOPMENT SYSTEM
DENSMORE, W.
TM 79-3231-1 MAY 31, 1979 AN INTERFACE BETWEEN UNIX AND AN INTEL MOS-800 RUNNING ISIS-II IS DESCRIBED. IT INCLUDES FEATURES FOR ALLOWING USER-TO-UNIX COMMUNICATION, MOS-TO-UNIX FILE TRANSFER, AND UNIX-TO-MOS FILE TRANSFER.
- UNHA1418 BATTERY BACKUP FOR PDP 11/70 MOS MEMORY
MCCUIRE, J. A.
MAY 2, 1979
- UNHA1423 PWB HARDWARE HELP
BROOKS, C. A.
AUGUST 1, 1979
- UNHA1460 A DATAKIT NETWORK MONITORING SYSTEM WITH A DIALUP FACILITY
ELLIOTT, R. J.
TM 80-1273-3 FEBRUARY 26, 1980 THIS PAPER DESCRIBES HOW TO USE THE NETWORK MONITOR SYSTEM.
- UNHA1513 RELEASE 1.0 OF THE UNIX VIRTUAL PROTOCOL MACHINE
LONG, P. F. + MEE, C.
TM 79-3624-6 OCTOBER 11, 1979 THIS MEMORANDUM DESCRIBES THE INITIAL RELEASE OF THE VIRTUAL PROTOCOL MACHINE (VPM), A NEW UNIX SYNCHRONOUS COMMUNICATION SUBSYSTEM.
- UNHA1550 POP110N NOISE ON UNTERMINATED LINES
SHANAHAN, J. M.
JANUARY 22, 1980
- UNHA1626 HARDWARE CHECKING FOR NULL POINTERS
REISER, J. F.
TM 80-1353-4 MARCH 19, 1980 OPERATING SYSTEMS SHOULD ROUTINELY USE MEMORY MANAGEMENT HARDWARE SO THAT USER CODE CANNOT REFERENCE A NEIGHBORHOOD CONTAINING (PROCESS VIRTUAL) MEMORY LOCATION 0. BY FORCEABLY TERMINATING EXECUTION WHEN USER CODE DEREFERENCES A NULL POINTER, THE OPERATING SYSTEM PROVIDES AN EXTREMELY POWERFUL DEBUGGING TOOL. THIS MEMO DESCRIBES THE IMPLEMENTATION OF SUCH A FACILITY FOR A UNIX-BASED SYSTEM RUNNING ON THE DEC VAX11, AND OUTLINES A PRACTICAL SCHEME FOR PROVIDING SIMILAR PROTECTION FOR UNIX SYSTEMS ON THE POP11.
- UNHA1683 REMOTE ACCESS TO AN ELECTRONIC COMPUTER CONSOLE
REDMAN, S. E. + WOODS, G. D.
TM 81-54533-2, TM 81-54332-3 MARCH 18, 1981 THIS DOCUMENT DESCRIBES HARDWARE THAT PROVIDES ACCESS TO A COMPUTER'S ELECTRONIC CONSOLE FROM ANY DATA SET.
- UNHA1684 PCL-11 EXPERIENCE
HERGENHAN, C. B.
TM 81-43174-2 APRIL 20, 1981 THIS MEMO DISCUSSES PCL SPECIFIC PROBLEMS ENCOUNTERED OVER THE PAST YEAR. SOME PROBLEMS ARE A RESULT OF THE HARDWARE DESIGN, SOME IN OUR DRIVER AND SOME IN THE PROTOCOL WE HAVE CHOSEN TO USE. A DISCUSSION OF OUR CONFIGURATION (HARDWARE AND SOFTWARE) IS INCLUDED TO BETTER ILLUSTRATE THE PROBLEMS. SOLUTIONS, WHERE WE HAVE FOUND THEM, ARE GIVEN.
- UNHA1710 TERMINAL MONITORING SETUP
SEIDE, S. B.
TM 81-46272-6 JULY 2, 1981 THIS MEMORANDUM PRESENTS A METHOD FOR GENERATING OUTPUT ON SEVERAL TERMINALS AT ONCE.

"UNHA - HARDWARE"

UNHA1711

UNIX EQUIPMENT TEST PACKAGE RELEASE 2.0 VAX 11/780 OPERATIONAL PROCEDURES
ALLEN, G. R. - SCANLON, E. P. - TARANTINO, L. A.
THE EQUIPMENT TEST PACKAGE (ETP) IS A SET OF SHELL SCRIPTS AND C PROGRAMS THAT RUNS ON THE UNIX
OPERATING SYSTEM AND IS DESIGNED TO UNCOVER FAULTS & TESTING AND EXERCISING THE HARDWARE. THIS
DOCUMENT DESCRIBES THE PROCEDURES THAT ARE TO BE FOLLOWED TO RUN THE EQUIPMENT TEST PACKAGE ON YOUR
VAX/780 PROCESSOR.

UNHA1712

HARDWARE REQUIREMENTS FOR STANDALONE UNIX SYSTEMS
DUNCAN, B. S. + FLAMM, D. L.
TM 81-11513-29 SEPTEMBER 11, 1981 THE HARDWARE CONFIGURATION OF DIGITAL EQUIPMENT CORPORATION (DEC)
LSI 11/23 BASED UNIX SYSTEMS FOR LABORATORY CONTROL AND DATA ACQUISITION IS DISCUSSED. THE FUNCTIONAL
ELEMENTS OF THESE SYSTEMS; PROCESSORS, MEMORY, MASS STORAGE INTERFACES ARE DESCRIBED ALONG WITH
RECOMMENDATIONS FOR INDIVIDUAL COMPONENTS.

"UNOS - OPERATING SYSTEM"

- UNOS1005 THE UNIX I/O SYSTEM
RITCHIE, D. M.
THIS DOCUMENT DESCRIBES HOW TO WRITE DRIVERS FOR THE UNIX SYSTEM. IT IS AN IMPORTANT MANUAL FOR THOSE CONTEMPLATING DRIVER WRITING.
- UNOS1008 THE UNIX TIME-SHARING SYSTEM
RITCHIE, D. M. - THOMPSON, K.
OVERVIEW OF THE UNIX TIME-SHARING SYSTEM.
- UNOS1043 UNIX SUMMARY
MCILROY, M. O.
- UNOS1045 EMULATION OF UNIX ON PERIPHERAL PROCESSORS
LYCKLAMA, H. - CHRISTENSEN, C.
TM 75-1352-2 JANUARY 9, 1975 THIS DOCUMENT DESCRIBES UNIX OPERATING SYSTEM EMULATION ON A PERIPHERAL PDP-11 COMPUTER.
- UNOS1047 EXPLANATION OF ABNORMAL CONDITIONS WITHIN THE UNIX OPERATING SYSTEM.
RALEIGH, T. M.
MF 75-8234-28 MARCH 17, 1975 ERROR MESSAGES PRINTED BY THE UNIX OPERATING SYSTEM ON THE SYSTEM CONSOLE ARE DISCUSSED WITH THEIR CAUSES, IMPLICATIONS AND REMEDIES.
- UNOS1052 A STRUCTURED OPERATING SYSTEM FOR A PDP-11/45
LYCKLAMA, H. - BAYER, D. L.
TM 75-1352-4 MAY 6, 1975 THIS PAPER PROVIDES AN OVERVIEW OF THE MERT SYSTEM ON WHICH UNIX TIME-SHARING HAS BEEN IMPLEMENTED. SEE ALSO UNOS(1052) - UNPM(1070)
- UNOS1052 MERT - A MULTI-ENVIRONMENT REAL-TIME OPERATING SYSTEM.
BAYER, D. L. - LYCKLAMA, H.
TM 75-1352-7 JULY 18, 1975 MEMORANDUM FOR FILE
- UNOS1055 A DESCRIPTION OF THE UNIX FILE SYSTEM
MARANZANO, J. F.
MF 75-8234-32 SEPTEMBER 16, 1975 THIS MEMORANDUM DESCRIBES THE STRUCTURE OF THE FILE SYSTEM AS WELL AS THE APPLICABLE CONTROL BLOCKS.
- UNOS1059 INTRODUCTION TO SCHEDULING AND SWITCHING UNDER UNIX
RALEIGH, T. M.
TM 75-8234-7 OCTOBER 20, 1975 THIS MEMORANDUM DISCUSSES PROCESS SWITCHING AND SCHEDULING UNDER UNIX USING QUEUING MODELS AS AN AID TO VISUALIZATION OF THE SYSTEM'S OPERATION.
- UNOS1073 UNIX PROGRAMMING - SECOND EDITION
KERNIGHAN, B. W. - RITCHIE, D. M.
OCTOBER 28, 1975 THIS PAPER IS AN INTRODUCTION TO PROGRAMMING ON UNIX. THE EMPHASIS IS ON HOW TO WRITE PROGRAMS THAT INTERFACE TO THE OPERATING SYSTEM.
- UNOS1076 LKOUT - A NEW UNIX SYSTEM CALL TO SUSPEND AND RESUME INPUT FROM USER TERMINALS.
R. C. WHITE, JR.
TM 75-4145-2 DECEMBER 17, 1975
- UNOS1077 UNIX DM-11 DRIVER TO SUPPORT BOTH TELETYPEWRITER AND DATASPEED 40 TIMESHARING TERMINALS.
R. C. WHITE, JR.
TM 75-4145-1 DECEMBER 17, 1975
- UNOS1087 GUIDE TO ISM REMOTE JOB ENTRY FOR PWB/UNIX USERS (S.12)
SABSEVITZ, A. L.
FEBRUARY 1975 THIS DOCUMENT DESCRIBES THE RJE SERVICES PROVIDED BETWEEN PROGRAMMER'S WORKBENCH MACHINES AND THE ISM COMPUTER CENTER.
- UNOS1090 PROPOSAL FOR UNIX INTERPROCESS COMMUNICATION
BRANDT, R. S.
TM 75-8234-4 MARCH 17, 1975 THIS MEMORANDUM PROVIDES FUNCTIONAL DESIGN SPECIFICATIONS FOR A COMPREHENSIVE SET OF INTERPROCESS COMMUNICATIONS ENHANCEMENTS TO UNIX OS.
- UNOS1092 TCMP - A PROGRAM FOR COMPARING PROGRAM TEXT AFTER A SYSTEM CRASH.
RALEIGH, T. M.
MF 75-8234-29 APRIL 27, 1975 TCMP IS A PROGRAM WHICH COMPARES THE ORIGINAL TEXT (INSTRUCTIONS) OF A PROGRAM WITH THE TEXT OF THAT PROGRAM IN A SYSTEM CRASH DUMP.
- UNOS1093 DEAD - A PROGRAM FOR ANALYZING UNIX SYSTEM CRASHES
RALEIGH, T. M.
MF 75-8234-30 APRIL 30, 1975 DEAD IS A PROGRAM FOR QUICKLY SUMMARIZING THE STATE OF A CRASHED UNIX SYSTEM.
- UNOS1094 CAUTIONS ON THE USE OF THE ALARM SIGNAL
LYONS, T. G.
APRIL 26, 1975 PROGRAMMER'S NOTES TWO SYSTEM CALLS ALARM (N) AND PAUSE () HAVE BEEN INSTALLED ON THE PWB MACHINES OPERATED BY DEPT. 9144. THEY WERE COGED AT MM AND ARE LIKELY TO FILTER DOWN TO STANDARD UNIX.
- UNOS1107 PROGRAMMER'S WORKBENCH PAPERS FROM THE SECOND INTERNATIONAL CONFERENCE ON SOFTWARE ENGINEERING.
(G.4)
T. A. DOLOTTA, ET AL.
FOR COMPLETE INFORMATION, SEE UNED (G.4)
- UNOS1113 UNIX SYSTEM CALL MEASUREMENTS
PEREZ, C. D. - RALEIGH, T. M.
MF 75-8234-79 SEPTEMBER 16, 1975 THIS MEMORANDUM IS THE FIRST OF A SERIES WHICH WILL DEAL WITH FUNDAMENTAL MEASUREMENTS OF THE UNIX OPERATING SYSTEM ON THE PDP-11.
- UNOS1114 SYNTHETIC PROCESS FOR UNIX
BERNSTEIN, D. R.
TM 75-8234-17, TM 75-9156-2 SEPTEMBER 24, 1975 THIS MEMORANDUM DESCRIBES THE MONITOR AND RESOURCE PARTS OF SYNTHETIC PROCESSING. SOME MEASUREMENTS OF SYSTEM CALLS COMPARING DIFFERENT HARDWARE AND SOFTWARE ARE PRESENTED FOR ILLUSTRATION.

"UNOS - OPERATING SYSTEM"

- UNOS1116 LSI-UNIX SYSTEM
LYCKLAMA, H.
TM 76-1352-4 OCTOBER 6, 1976 A MODIFIED VERSION OF THE UNIX OPERATING SYSTEM HAS BEEN WRITTEN TO RUN ON THE LSI-11 MICROCOMPUTER. THE MAIN PROGRAMMING LANGUAGE IS THE STRUCTURED HIGH LEVEL LANGUAGE C.
- UNOS1120 DOS-BATCH TO UNIX CONVERSION
ALBRECHT, E. H.
SEPTEMBER 1, 1976 THIS MEMO DESCRIBES NOTES AND AN ATTACHMENT FOR THE KNOWLEDGEABLE DOS-BATCH PROGRAMMER WITH SUFFICIENT BACKGROUND TO DEVELOP PROGRAMS IN A --STAND-ALONE-- PDP-11 PROCESSOR USING THE UNIX OPERATING SYSTEM.
- UNOS1122 A REAL-TIME TIME-SHARED OPERATING SYSTEM FOR AN SEL/86 - PDP-11 CONFIGURATION
BURNETTE, W. A.
TM 76-8231-9, TM 76-1228-11 OCTOBER 29, 1976 THE PRIMARY PURPOSE OF THE SEL/86 - PDP-11 SYSTEM IS TO PROVIDE REAL-TIME INTERACTIVE COMPUTING FOR RESEARCH IN SPEECH AND GRAPHICS.
- UNOS1123 MINI-UNIX SUMMARY
LYCKLAMA, H.
NOVEMBER 1976
- UNOS1124 SETTING-UP MINI-UNIX - SIXTH EDITION
LYCKLAMA, H.
NOVEMBER 1976 THIS PAPER DESCRIBES THE PROCEDURE FOR SETTING UP MINI-UNIX ON THE PDP-11/10, -11/20 OR -11/40.
- UNOS1125 MINI-UNIX REGENERATING SYSTEM SOFTWARE
LYCKLAMA, H.
NOVEMBER 1976 THIS DOCUMENT DISCUSSES HOW TO ASSEMBLE OR COMPILE VARIOUS PARTS OF THE MINI-UNIX SYSTEM SOFTWARE.
- UNOS1126 SCHEDULING AND SWITCHING UNDER UNIX ALGORITHMS AND IMPLEMENTATION
RALEIGH, T. M.
TM 76-8234-18 OCTOBER 1, 1976 THIS MEMORANDUM IS THE SECOND OF TWO INTENDED TO PROVIDE DOCUMENTATION FOR THE SCHEDULER AND SWITCHER UNDER UNIX OS (USG). A NUMBER OF CHANGES MADE BY UNIX RESEARCH ARE DISCUSSED AS A GUIDE TO WHAT IMPROVEMENTS MAY BE MADE TO THE STANDARD SYSTEM.
- UNOS1127 SHARED MEMORY IN UNIX
JAGER, D. S. DE
TM 76-5223-1 NOVEMBER 19, 1976 THIS MEMORANDUM PRESENTS A PROPOSAL FOR A GENERAL SET OF PRIMITIVES TO BE USED FOR THE SET UP AND ADMINISTRATION OF SHARED MEMORY IN THE UNIX ENVIRONMENT.
- UNOS1128 UNIX INITIALIZATION AND PROCESS CONTROL
IMAGNA, C. P.
TM 76-3412-1 JULY 23, 1976 THIS MEMORANDUM DESCRIBES THE UNIX INITIALIZATION PROGRAM (INIT).
- UNOS1129 LSX SOFTWARE
LYCKLAMA, H.
MAY 1977
- UNOS1130 SETTING UP LSI-UNIX - FIRST EDITION
LYCKLAMA, H.
MAY 1977 THIS PAPER DESCRIBES THE PROCEDURE FOR SETTING UP LSI-UNIX ON THE LSI-11 MICROPROCESSOR WITH 20K WORDS OF MEMORY AND FLOPPY DISK FOR SECONDARY STORAGE.
- UNOS1131 REGENERATING LSX SOFTWARE
LYCKLAMA, H.
MAY 1977
- UNOS1135 THE MINI-UNIX SYSTEM
LYCKLAMA, H.
TM 77-1352-1 JANUARY 13, 1977 THE MINI-UNIX OPERATING SYSTEM IS BASICALLY THE UNIX OPERATING SYSTEM REWRITTEN TO RUN ON A PDP-11 PROCESSOR WITHOUT A SEGMENTATION UNIT. THE SYSTEM SUPPORTS ALL OF THE STANDARD SYSTEM CALLS OF UNIX WITH THE EXCEPTION PTRACE, PIPE, PROG, CMTGID AND SETGID. THE ENTIRE SYSTEM RESIDES ON 12K WORDS OF MEMORY AND IS WRITTEN IN C LANGUAGE.
- UNOS1136 IMPLEMENTATION OF SEMAPHORES AND MESSAGES IN UNIX
BRANDT, R. B.
MF 76-8234-76 SEPTEMBER 7, 1976 THE DESIGN SPECIFICATION FOR A COLLECTION OF UNIX INTERPROCESS COMMUNICATIONS FEATURES ARE PROPOSED.
- UNOS1138 ON THE SECURITY OF UNIX
RITCHIE, D. M.
JANUARY 1979 THIS PAPER DISCUSSES THE DEGREE OF SECURITY WHICH CAN BE PROVIDED UNDER THE UNIX SYSTEM AND OFFERS A NUMBER OF HINTS ON HOW TO IMPROVE SECURITY.
- UNOS1145 DEC FACTORY ACCEPTANCE TEST
BRANDT, R. B. + PEREZ, C. O.
MF 77-8234-001 JANUARY 19, 1977 THIS MEMORANDUM IS A DESCRIPTION OF A UNIX CHECKOUT PACKAGE MADE AVAILABLE TO DEC ON A TRIAL BASIS.
- UNOS1146 SETTING-UP MERT - SECOND EDITION
LYCKLAMA, H.
FEBRUARY, 1977
- UNOS1147 REGENERATING MERT SOFTWARE
LYCKLAMA, H.
FEBRUARY, 1977
- UNOS1154 UNIX ON A MICRO-PROCESSOR
LYCKLAMA, H.
MAY 1977 A MODIFIED VERSION OF THE UNIX OPERATING SYSTEM HAS BEEN WRITTEN TO RUN ON THE LSI-11 MICRO-COMPUTER WITH 20K WORDS OF PRIMARY MEMORY AND FLOPPY DISK FOR SECONDARY STORAGE. THIS CONFIGURATION PERMITS MOST OF THE UNIX USER PROGRAMS TO RUN ON THE LSI-11 MICRO-COMPUTER.

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- UNOS1155 PROGRAMMER'S MANUAL FOR THE SEL-86 PDP-11/45 OPERATING SYSTEM.
BURNETTE, W. A. + REMOE, J. R.
TM 77-8231-2, TM 77-1228-2 FEBRUARY 7, 1977 THIS PROGRAMMER'S MANUAL IS AN INTRODUCTION TO THE SEL86 - PDP-11/45 SYSTEM, AND A REFERENCE MANUAL FOR THE COMMANDS, SYSTEM CALLS, AND IMPORTANT SUBROUTINES AVAILABLE ON THE SEL86.
- UNOS1158 LSI-UNIX SUMMARY
LYCKLAMA, M.
MAY 1977
- UNOS1159 A NEW INPUT-OUTPUT PACKAGE (B.10)
RITCHIE, D. M.
MAY 1977
- UNOS1162 THE UNIX OPERATING SYSTEM - PG-1C300
VOGEL, G. C.
TM 77-8234-02 APRIL 15, 1977 THIS MEMORANDUM DESCRIBES THE STANDARD VERSION OF UNIX THAT HAS BEEN ISSUED TO WESTERN ELECTRIC AS THE THE UNIX OPERATING SYSTEM PROGRAM GENERIC - PG-1C300. DEPT. 8234 PROVIDES SUPPORT FOR THIS VERSION OF UNIX.
- UNOS1163 UNIX ERROR LOGGING
BRANDT, R. B.
TM 77-8234-10 MAY 6, 1977 THIS MEMORANDUM DESCRIBES THE ERROR LOGGING SCHEME THAT HAS BEEN IMPLEMENTED FOR THE UNIX OPERATING SYSTEM.
- UNOS1164 FILE INTEGRITY AND SPACE ACCOUNTING FOR A UNIX BASED SYSTEM.
FRASER, A. G. - ELLIOTT, R. J.
TM 77-1273-7 APRIL 4, 1977 THIS MEMORANDUM IS CONCERNED PRIMARILY WITH THE OVERALL STRATEGY USED FOR FILE INTEGRITY, SPACE ACCOUNTING AND RELEVANT CHANGES TO THE UNIX OPERATING SYSTEM. THERE IS A SUMMARY OF NEW COMMANDS AND AN OVERVIEW OF THE FILE DUMP AND RECOVERY PROGRAMS.
- UNOS1167 CM, A UNIX DRIVER FOR THE MINITAPE SYSTEM
SWIFT, R. E.
TM 77-8234-13 JUNE 13, 1977 CM, IS A UNIX DRIVER, WRITTEN IN C TO INTERFACE A MINITAPE SYSTEM.
- UNOS1173 SYNTHESIS OF A HALF-DUPLEX LINE CONTROL PROCEDURE FOR UNIX USING STATE TRANSITION MATRIX TECHNIQUES
LONG, P. F.
TM 77-8234-14 JULY 19, 1977 A NEW UNIX TERMINAL INTERFACE IS DESCRIBED WHICH PROVIDES 120 CPS ACCESS OVER THE ODD NETWORK USING HALF-DUPLEX TELETYPE MODEL 40/15 AND 2025 DATA SETS.
- UNOS1176 ON USING THE UNIX ERROR LOGGER
PEREZ, C. D.
MF 77-8234-82 AUGUST 31, 1977 THIS UNIX ERROR LOGGER IS A SOFTWARE TOOL THAT COLLECTS INFORMATION FROM THE SYSTEM ABOUT CERTAIN BLOCK DEVICES AT THE MOMENT THAT AN I/O ERROR OCCURS.
- UNOS1180 A DESCRIPTION OF AUTOMATIC DIALING USING THE UNIX OPERATING SYSTEM
FOLEY, G. B.
AUGUST 1, 1977 MEMORANDUM FOR FILE THIS MEMO PROVIDES BACKGROUND INFORMATION ON AUTOMATIC DIALING, EXPLAINS HOW IT HAS BEEN IMPLEMENTED ON THE UNIX OPERATING SYSTEM AND DESCRIBES SOME ROUTINES TO MAKE AUTOMATIC CALLING EASIER.
- UNOS1183 MERT RELEASE 0 FROM DEPARTMENT 8234
LUDERER, G. W. R.
MF 77-8234-087 JUNE 30, 1977 THIS PURPOSE OF THIS PAPER IS TO ANNOUNCE THE CONTENTS AND ORIENTATION OF A PRELIMINARY MERT RELEASE 0 AND GIVE SOME EARLY CONSIDERATIONS WITH REGARD TO UNIX/RT.
- UNOS1187 THE UNIX TIME-SHARING SYSTEM - A RETROSPECTIVE (G.3)
RITCHIE, D. M.
A MORE RECENT DISCUSSION.
- UNOS1189 PWB/UNIX SHELL TUTORIAL (B.5)
MASHEV, J. R.
SEPTEMBER 1977 DESCRIBES THE PWB/UNIX COMMAND INTERPRETER.
- UNOS1194 SETTING UP PWB/UNIX (I.1)
HAIGHT, R. C. - ROOMS, W. D. + WEHR, L. A.
SEPTEMBER 1977 PROCEDURES USED TO INSTALL PWB/UNIX ON THE PDP-11/45 OR -11/70 AND THE STEPS NECESSARY TO REGENERATE ALL THE PWB/UNIX PROGRAMS.
- UNOS1195 ADMINISTRATIVE ADVICE FOR PWB/UNIX (I.2)
HAIGHT, R. C.
OCTOBER 1977 HINTS FOR APPROACHING OPERATIONAL SERENITY.
- UNOS1197 REPAIRING DAMAGED PWB/UNIX FILE SYSTEMS (I.4)
WANDZILAK, P. D.
NOVEMBER 1977 COMES IN HANDY AFTER A POWER FAILURE, ETC.
- UNOS1198 PWB/UNIX RJE ADMINISTRATOR'S GUIDE (I.5)
SASSEVITZ, A. L.
DECEMBER 1977 WHAT TO DO WHEN IT BREAKS.
- UNOS1201 NOTES ON THE SELECTION, PROCUREMENT, INSTALLATION, AND USAGE OF UNIX BY DEPARTMENT 5254.
MAJERNIK, J. F.
OCTOBER 21, 1977 5254-771021.01EN
- UNOS1202 MORE FLEXIBLE LOW SPEED I/O FOR UNIX
FEDER, J.
TM 77-8234-16 AUGUST 15, 1977 DESCRIPTIVE MATERIAL ON UNIX I/O OPERATION IS GIVEN IN THIS MEMO.
- UNOS1204 C LANGUAGE PORTABILITY
TAGUE, B. A. + HAIGHT, R. C.
SEPTEMBER 22, 1977

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- UNOS1212 DA118 DRIVER IN MERT
LAUR, J. B.
NOVEMBER 30, 1977 MEMORANDUM FOR FILE THE PURPOSE OF THIS MEMO IS TO DESCRIBE THE DA DRIVER BUILT TO RUN UNDER THE MERT OPERATING SYSTEM.
- UNOS1214 LECTURE ON UNIX SCHEDULER AND SWITCHER GIVEN BY T. M. RALEIGH AT WHIPPANY
RALEIGH, T. M.
MF 77-8234-99 NOVEMBER 21, 1977 THIS MEMORANDUM COMPILES ALL OF THE VIEW GRAPHS USED FOR THE LECTURE AND SHOULD BE USEFUL TO OTHER TEACHERS LECTURING ON THE SAME TOPIC AND STUDENTS REVIEWING MATERIALS IN THE COURSE.
- UNOS1217 GUIDE TO UNIVAC REMOTE JOB ENTRY FOR PROGRAMMER'S WORKBENCH USERS
LYONS, T. G.
FEBRUARY 16, 1978 MEMORANDUM FOR FILE THIS DOCUMENT DESCRIBES THE RJE SERVICES PROVIDED BETWEEN PROGRAMMER'S WORKBENCH MACHINES AND THE UNIVAC COMPUTER CENTER AT RARITAN RIVER.
- UNOS1218 SOFTWARE SUPPORT FOR SATELLITE PROCESSOR
ELLIOTT, R. J.
TM 77-1273-16 NOVEMBER 7, 1977 THIS PAPER DESCRIBES HOW TO MAKE FREE-STANDING PROGRAMS FOR ANY SATELLITE POP-11/40 CONNECTED TO A UNIX SYSTEM AND THE INTERFACE WITH THE FILE STORE.
- UNOS1230 PORT - A NEW INTER-PROCESS COMMUNICATION FACILITY UNDER UNIX
TING, D. W. + GLASSER, A. L.
TM 78-3124-1 JANUARY 3, 1978 THIS MEMORANDUM DESCRIBES A MECHANISM WHICH ALLOWS A SINGLE PROCESS TO COMMUNICATE WITH AN ARBITRARY NUMBER OF OTHER PROCESSES.
- UNOS1231 CONTENTS OF UNIX/RT
LUDERER, G. W. R.
MF 78-8234-1 JANUARY 10, 1978 UNIX/RT IS THE SUCCESSOR OF MERT RELEASE 0, WHICH IT WILL SUPERSEDE AROUND THE FALL OF 1978. UNIX/RT WILL BE A MERT OPERATING SYSTEM THAT IS AS COMPA UNIX/TS.
- UNOS1232 UNIX/TS RELEASE 1.0 PLANS
COHEN, A. S. + MARANZANO, J. F.
MF 78-8234-11 JANUARY 30, 1978
- UNOS1233 TIMING TESTS OF THE UNIGRAPHIX GRAPHICS SYSTEM RUNNING ON A DEC PDP-11/70 UNDER THE UNIX OPERATING SYSTEM
SCHUYLER, S. T.
TM 77-8254-4 SEPTEMBER 14, 1977 THE UNIGRAPHIX SYSTEM IS A GENERAL PURPOSE GRAPHICS SYSTEM FITTED WITH SPECIALIZED DATA-BASE STRUCTURES AND OPERATORS FOR SUPPORTING OUTSIDE PLANT ENGINEERING TASKS. THE SYSTEM WAS WRITTEN ENTIRELY IN THE C LANGUAGE.
- UNOS1234 INTERPROCESS COMMUNICATION MECHANISMS IN CB-UNIX
J. C. KAUFELD JR.
TM 77-8223-1 JUNE 19, 1978 A DISCUSSION OF INTERPROCESS COMMUNICATION MECHANISMS IN CB-UNIX IS PRESENTED. IN PARTICULAR FILES, PIPES, NAMED PIPES, SIGNALS, SEMAPHORES, MAUS AND MESSAGES ARE DISCUSSED.
- UNOS1235 MOVING SYSTEM I/O BUFFERS OUT OF UNIX DATA ADDRESS SPACE
TING, D. W.
TM 78-3124-4 FEBRUARY 2, 1978 WE DESCRIBE A METHOD OF REMOVING THE UNIX IN-CORE SYSTEM BUFFERS FROM THE OPERATING SYSTEM'S DIRECT ADDRESSABLE SPACE, AND "--WINDOWING"-- TO THEM AS NECESSARY.
- UNOS1236 OPTIMIZING PROCESS CREATION AND TERMINATION MECHANISMS IN UNIX
TING, D. W.
TM 78-3124-3 FEBRUARY 4, 1978 IN THIS MEMORANDUM WE CONSIDER THE OPTIMIZATION OF THE UNIX ROUTINES WHICH HANDLE PROCESS CREATION AND TERMINATION.
- UNOS1241 ASYNCHRONOUS I/O FACILITIES FOR RAW BLOCK DEVICES UNDER UNIX
TING, D. W.
TM 78-3124-9 MARCH 1, 1978 IN THIS MEMO, WE DESCRIBE A WAY OF IMPLEMENTING ASYNCHRONOUS I/O ON RAW UNIX DEVICES.
- UNOS1244 SHCVT - A TOOL FOR SHELL CONVERSION
SNYDER, G. A.
MF 78-8234-32 APRIL 7, 1978 THIS DOCUMENT DESCRIBES THE PROGRAM SHCVT, WHICH WAS DEVELOPED TO AID IN THE CONVERSION PROCESS FROM THE PWB/UNIX SHELL TO THE BOURNE SHELL. IT ALSO DESCRIBES SOME OF THE PROBLEMS ENCOUNTERED IN THE CONVERSION PROCESS, AND POSSIBLE SOLUTIONS TO THESE PROBLEMS.
- UNOS1246 THE MERT OPERATING SYSTEM
LYCKLAMA, H. + BAYER, D. L.
TM 78-3114-3, TM 78-1352-3 MARCH 22, 1978 THIS MEMO DISCUSSES SOME USES OF THE MERT OPERATING SYSTEM. A RETROSPECTIVE VIEW OF THE MERT SYSTEM IS ALSO OFFERED.
- UNOS1247 A MINICOMPUTER SATELLITE PROCESSOR SYSTEM
LYCKLAMA, H. + CHRISTENSEN, C.
TM 78-3114-2, TM 78-1359-3 MARCH 22, 1978 THIS MEMO DESCRIBES A SOFTWARE SUPPORT SYSTEM FOR A NETWORK OF MINICOMPUTERS AND MICROCOMPUTERS. A POWERFUL TIME-SHARING SYSTEM ON A CENTRAL COMPUTER CONTROLS THE LOADING, RUNNING, DEBUGGING AND DUMPING OF PROGRAMS IN THE SATELLITE PROCESSORS.
- UNOS1253 CNCC UNIX PROJECT PERFORMANCE MEASUREMENTS, PROJECTIONS AND ENHANCEMENTS
ARTHURS, E. + DAILY, P. + JAKUBEN, R. - STUCK, B. W.
MF 78-8234-10 APRIL 24, 1978 THIS REPORT SUMMARIZES RECENT WORK TO DETERMINE AND ENHANCE PERFORMANCE OF THE CUSTOMER NETWORK CONTROL CENTER UNIX APPLICATION PROJECT.
- UNOS1256 STANDARDIZING FILE TYPES IN THE INODES OF UNIX VERSION 7 DESCENDANTS
LUDERER, G. W. R.
MF 78-8234-48 APRIL 28, 1978
- UNOS1257 ENLARGING PDP-11 UNIX TABLE SPACE USING SUPERVISOR MODE
GLASSER, A. L. - TING, D. W.
TM 78-3111-1 MARCH 20, 1978 THIS MEMO DESCRIBES A MECHANISM WHICH GREATLY INCREASES THE ADDRESS SPACE OF THE UNIX OPERATING SYSTEM RUNNING ON A POP-11/70. GENERATED AFTER IMPLEMENTATION OF THE MECHANISM IS A UNIX SYSTEM CAPABLE OF RUNNING 1023 PROCESSES. THE PERFORMANCE OF THIS SYSTEM WAS MEASURED AND RESULTS ARE PRESENTED.

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- UNOS1258 WRITING A MERT SUPERVISOR
BURNETTE, W. A.
TM 78-9156-1 MARCH 24, 1978 THIS MEMO DISCUSSES THE FUNCTIONS AVAILABLE TO SUPERVISOR MODE PROGRAMS AND DESCRIBES THE BASIC OPERATING SYSTEM INTERACTIONS REQUIRED TO MAKE EFFECTIVE USE OF THE SUPERVISOR ENVIRONMENT.
- UNOS1259 PASSWORD SECURITY: A CASE HISTORY
MORRIS, R. + THOMPSON, K.
TM 78-1271-6 APRIL 3, 1978 THE HISTORY OF THE DESIGN OF THE PASSWORD SECURITY SCHEME ON A REMOTELY ACCESSED TIME-SHARING SYSTEM IS DESCRIBED IN THIS PAPER. THE PRESENT DESIGN WAS THE RESULT OF COUNTERING OBSERVED ATTEMPTS TO PENETRATE THE SYSTEM. THE RESULT IS A COMPROMISE BETWEEN EXTREME SECURITY AND EASE OF USE.
- UNOS1264 A CORE-RESIDENT UNIX SYSTEM FOR PDP-11'S
GLASSER, A. L. + TING, D. W.
TM 78-3111-2 MAY 5, 1978 IN THIS MEMORANDUM WE DESCRIBE A UNIX SYSTEM WHICH, TOGETHER WITH A FIXED NUMBER OF USER PROGRAMS, IS ENTIRELY CORE-RESIDENT. THE OPERATING SYSTEM AND ITS RESIDENT USER PROGRAMS ARE GENERATED ON A PWB/UNIX SYSTEM. THIS SYSTEM REQUIRES NO DISK DRIVES, EITHER FOR SWAPPING OR TO SUPPORT A FILE SYSTEM.
- UNOS1265 A FASTER TERMINAL HANDLER FOR UNIX
FEDER, J.
TM 78-8234-7 MARCH 10, 1978 THIS MEMO DESCRIBES A NEW SOFTWARE PACKAGE FOR HIGH-SPEED CHARACTER OUTPUT. THE PACKAGE PROVIDES A USER INTERFACE THAT IS VIRTUALLY INDISTINGUISHABLE FROM THE STANDARD UNIX TERMINAL HANDLER, BUT USES DIFFERENT ALGORITHMS AND INTERNAL BUFFERING TO RUN UP TO 30 TIMES FASTER.
- UNOS1270 A REVISED ERRPT COMMAND
PEREZ, C. O.
MF 78-8234-60 JUNE 12, 1978 THIS DOCUMENT DESCRIBES THE NEW ERRPT COMMAND, OPTIONS THAT ARE AVAILABLE, AND ANY DIFFERENCES FROM THE ORIGINAL VERSION. SAMPLES OF THE OUTPUT ARE PROVIDED FOR THE VARIOUS REPORTS THAT ARE AVAILABLE.
- UNOS1274 PRE-RELEASE UNIX/TS
HAIGHT, R. C.
MF 78-8234-67 JUNE 4, 1978 THE PRE-RELEASE VERSION OF UNIX/TS IS MEANT FOR A FEW FRIENDLY CUSTOMERS WHO WOULD OTHERWISE GO TO RESEARCH FOR VERSION 7. THE ONLY THING WE GUARANTEE ABOUT THE PRE-RELEASE IS THE PRESENCE OF BUGS, ESPECIALLY IN THE DOCUMENTATION AND COMMANDS (THE OPERATING SYSTEM SHOULD BE SOLID). THE FINAL TS WILL CONTAIN ADDITIONAL FEATURE; SOME CURRENT FEATURES MAY LIKEWISE BE DROPPED.
- UNOS1276 FILE SYSTEM STRUCTURES FOR REAL-TIME APPLICATIONS
LYCKLAMA, H.
TM 78-3114-5 APRIL 20, 1978 A NEW VERSION OF THE FILE SYSTEM STRUCTURE WAS DONE FOR VERSION 7 UNIX USING A 32-BIT BYTE OFFSET POINTER TO ACHIEVE VERY LARGE FILES AND FILE SYSTEMS. THE NEW FILE SYSTEM STRUCTURE HAS CHARACTERISTICS WHICH MAKE IT EFFICIENT FOR BOTH TIME-SHARING AND REAL-TIME APPLICATIONS.
- UNOS1277 UNIX COURSES
BRANDT, R. B. + MARANZANO, J. F. + VOGEL, G. C.
MF 78-8234-3 JANUARY 9, 1978 CONTAINS SYLLABUSES OF COURSES WHICH COVER THE MAJORITY OF THE NEEDS OF THE CUSTOMERS DEALT WITH AT BELL LABORATORIES.
- UNOS1278 THE MERT/UNIX SUPERVISOR
LYCKLAMA, H.
TM 78-3114-4 APRIL 20, 1978 THIS PAPER DESCRIBES THE IMPLEMENTATION AND CAPABILITIES OF THE UNIX-LIKE SUPERVISOR WHICH WAS IMPLEMENTED AS AN ENVIRONMENT IN THE MERT SYSTEM.
- UNOS1281 A PROM WRITER FACILITY FOR UNIX IMPROVED VERSION
MARCUS, H.
AUGUST 15, 1978 MEMORANDUM FOR FILE THIS MEMORANDUM DESCRIBES A PROGRAMMABLE READ ONLY MEMORY (PROM) WRITING FACILITY WHICH IS CURRENTLY INSTALLED ON THE HOLMDEL COMPUTATION CENTER UNIX SYSTEM. THIS MEMO SUPERSEDES A PREVIOUS MEMORANDUM FOR FILE DATED MAY 16, 1978, BY D. MJIR.
- UNOS1287 UPGRADING MERT RELEASE 0 WITH MODIFICATION 0.1 TO MERT RELEASE
RALEIGH, T. M.
MF 78-8234-86 MAY 6, 1978 THIS MEMO IS INTENDED TO CORRECT A FEW BUGS ON THE RELEASE 0 SOURCE AND TO OF BUG FIXES THAT WERE NOT READY FOR RELEASE 0 OR WHICH HAVE BEEN FOUND SI
- UNOS1288 INTERPROCESS COMMUNICATION PERFORMANCE TRADE-OFFS IN CB - UNI
DEJAGER, D. S.
TM 78-8223-1 JULY 18, 1978 A DISCUSSION OF INTERPROCESS COMMUNICATION PERFORMANCE TRADE-OFFS IS PRESE
- UNOS1289 A PERIPHERAL PROCESSOR INTERACTIVE CONTROL AND DATA ACQUISIT:
KRAUS, J. S.
TM 78-1131-22 MAY 23, 1978 A COMPUTER HARDWARE AND SOFTWARE SYSTEM HAS BEEN DEVELOPED IN SUPPORT OF A ATOMIC COLLISION RESEARCH LABORATORY.
- UNOS1290 ACTIVITY PROFILE OF THE PWB/UNIX OPERATING SYSTEM
EVERETT, W. W.
TM 78-9441-2 MAY 15, 1978 AN EXPLORATORY STUDY OF PWB/UNIX PERFORMANCE.
- UNOS1297 A UNIX OPERATING SYSTEM FOR THE DEC VAX-11/780 COMPUTER
LONDON, T. S. + REISER, J. F.
TM 78-1363-4 JULY 7, 1978 THIS MEMORANDUM DESCRIBES THE VAX-11/780 HARDWARE AND THE UNIX OPERATING SYSTEM AND C PROGRAMMING LANGUAGE SOFTWARE IMPLEMENTATION, RECORDS SOME OBSERVATIONS ON PROGRAM PORTABILITY, AND SPECULATES WAYS IN WHICH THE OPERATING SYSTEM OVERHEAD CAN BE SIGNIFICANTLY REDUCED.
- UNOS1302 EXERCISES IN REPAIRING PWB/UNIX FILE SYSTEMS
VANDZILAK, P. D.
OCTOBER 19, 1978 THIS DOCUMENT DESCRIBES A TOOL THAT GENERATES A SERIES OF SELF- INSTRUCTIONAL EXERCISES. SEE ALSO UNOS (1197)

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- UNOS1303 INTER-PROCESS COMMUNICATIONS FACILITY FOR TRANSACTION ORIENTED UNIX SYSTEMS
TING, D. W.
TM 78-3111-4 SEPTEMBER 14, 1978 THIS MEMORANDUM PRESENTS A PHILOSOPHY AND DESIGN OF AN INTER-PROCESS COMMUNICATION FACILITY.
- UNOS1306 AUDIO RESPONSE UNIT (ARU) SUBSYSTEM DESIGN FOR REAL-TIME RETRIEVAL (RTL)/ARU PROTOTYPE SYSTEM
HOOKER, J. W.
TM 78-9156-4 SEPTEMBER 15, 1978 THIS PAPER DESCRIBES AN EXAMPLE OF A MERT KERNEL PROCESS DEVELOPED TO IMPLEMENT A REAL-TIME APPLICATION WITH WITH PERFORMANCE REQUIREMENTS NOT ACHIEVABLE WITH USER PROCESSES.
- UNOS1308 KW11-P CLOCK DRIVER
BABU, R. R.
TM 78-3112-1 SEPTEMBER 22, 1978 THIS DOCUMENT DESCRIBES THE DEC KW11-P PROGRAMMABLE CLOCK DRIVER AND HOW U
- UNOS1310 UNIX/370 - A PROPOSAL
PRIEVE, B. G.
SEPTEMBER 28, 1978 THIS PAPER PROPOSES THAT AN EXPERIMENT BE UNDERTAKEN TO SEE IF UNIX SCALES MOVED TO A MAXI-COMPUTER.
- UNOS1312 A NEW DV-11 DRIVER FOR USE WITH LEAP
MUELLER, M. S.
TM 78-3112-2 SEPTEMBER 22, 1978 THIS MEMORANDUM PRESENTS A DV-11 HARDWARE OVERVIEW, USER INTERFACE SPECIFICATIONS, AND THE IMPACT OF DRIVER USAGE ON PWB/UNIX.
- UNOS1316 TERMINAL HANDLING UNDER UNIX AND MERT/UNIX
FEDER, J.
TM 78-8234-11 SEPTEMBER 1, 1978 THIS MEMORANDUM GIVES A TUTORIAL OVERVIEW OF TERMINAL HANDLING FOR THE UNI OPERATING SYSTEMS.
- UNOS1319 UNIX FILE SYSTEM CONVERSION
HAIGHT, R. C.
MF 78-8234-83 SEPTEMBER 30, 1978 THIS MEMORANDUM DESCRIBES PROCEDURES DEVELOPED FOR CONVERTING UNIX FILE SY FROM THE "VERSION 6" FORMAT (INCLUDES USG/UNIX, PWB/UNIX, ETC.) TO THE "VE" FORMAT (RESEARCH, UNIX/TS).
- UNOS1320 SETTING UP UNIX/TS
HAIGHT, R. C. - WEHR, L. A.
MF 78-8234-98 SEPTEMBER 30, 1978 THIS DOCUMENT DESCRIBES PROGRAMMING STEPS FOR GENERATING A UNIX/TS OPERATING SYSTEM ALONG WITH ADMINISTRATIVE DETAIL ON CONFIGURATION, SETTING UP FILE SYSTEMS, AND INSTALLATION/RECOMPILATION OF COMMAND SOFTWARE
- UNOS1321 UNIX/TS RELEASE 1.0
HAIGHT, R. C.
MF 78-8234-82 SEPTEMBER 30, 1978 THIS DOCUMENT IS AN ATTEMPT TO DESCRIBE NEW FEATURES OF UNIX/TS.
- UNOS1325 ON THE INCONSISTENCIES OF UNIX COMMANDS
OLSSON, S. B.
OCTOBER 28, 1978 AN EXAMINATION OF THE SOURCE CODE FOR SOME 120 UNIX COMMANDS HAS BEEN MADE AND VARIOUS INCONSISTENCIES NOTED.
- UNOS1327 SHELL SUBPROGRAM FACILITY
LIONS, J.
DECEMBER 8, 1978 THIS PAPER DESCRIBES A GENERAL SHELL COMMAND THAT ALLOWS A GROUP OF SHELL SUBPROGRAM FILES TO BE PACKAGED AS A SINGLE FILE AND INVOKED CONVENIENTLY.
- UNOS1329 EFFECTS ON UNIX HOST CPU RESOURCES BY THE USE OF INTELLIGENT TERMINALS
MARANZANO, J. F.
DECEMBER 13, 1978 THIS MEMORANDUM SHOWS THAT WITH THE CURRENT UNIX HARDWARE/SOFTWARE TERMINA INTERFACES, MOVING THE EXECUTION OF PROGRAMS TO AN INTELLIGENT TERMINAL DO NOT SIGNIFICANTLY OFFLOAD THE HOST CPU.
- UNOS1334 A FAST SOFTWARE ENCRYPTION ALGORITHM
MORRIS, R.
TM 79-1271-1 JANUARY 5, 1979 THIS PAPER DESCRIBES THE DESIGN OF THE FILE ENCRYPTION SCHEME ON A REMOTELY ACCESSED TIME-SHARING SYSTEM.
- UNOS1335 UNIX FILE SECURITY
MORRIS, R.
TM 79-1271-3 JANUARY 19, 1979 THIS PAPER DESCRIBES THE HISTORY OF THE DESIGN OF THE FILE ENCRYPTION SCHEME ON THE UNIX TIME-SHARING SYSTEM.
- UNOS1336 A WORKSHOP ON REBOOTING THE UNIX TIME-SHARING SYSTEM
WONSIEWICZ, B. C. - STORM, A. R.
TM 78-1623-30 NOVEMBER 29, 1978 THIS MEMO DOCUMENTS A TWO HOUR WORKSHOP ON REBOOTING THE UNIX SYSTEM GIVEN TO SELECTED USERS WHO WISHED TO BE ABLE TO RESTART THE MACHINE WHEN THE SYSTEM ADMINISTRATORS WERE ABSENT.
- UNOS1343 VIRTUAL FILE SYSTEMS ON MERT
HAMILTON, L. L.
TM 78-8522-9 AUGUST 22, 1978 THIS MEMORANDUM IS MEANT TO BE BOTH A USER'S GUIDE AND A BRIEF OVERVIEW OF THE WORKINGS OF THE SYSTEM.
- UNOS1345 AN ESSAY IN COMPUTER SECURITY: DECRYPTING A FORMER UNIX CRYPT
WEINBERGER, P. J.
TM 78-1271-20 DECEMBER 29, 1978 SEE ALSO UNOS(1335)
- UNOS1349 UNIX/RT AS AN APPLICATION SYSTEM FOR BOS/LMOS DEVELOPMENT
IMAGNA, C. P.
FEBRUARY 2, 1979 THIS MEMORANDUM PRESENTS SOME IDEAS ON HOW TO UPGRADE THE BOS-11 OPERATING SYSTEM TO RUN IN THE LMOS.NEXT SYSTEM WHICH IS CURRENTLY BEING P

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- UNOS1351 IMPLEMENTATION OF THE LARGE ARGUMENT LIST FEATURE IN UNIX/RT'S EXEC. SYSTEM CALL
LOIKITS, E.
2524-790110.01MF JANUARY 10, 1979 THE KERT/UNIX SYSTEM CALL EXEC HAS BEEN MODIFIED FOR UNIX/RT. THIS PAPER DESCRIBES THESE MODIFICATIONS.
- UNOS1352 UNIX/370: A FEASIBILITY STUDY
FELTON, W. A.
TM 79-8224-1 JANUARY 23, 1979 THIS PAPER IS A FEASIBILITY STUDY FOR UNIX/370, A VERSION OF UNIX OPERATING SYSTEM ADAPTED TO THE SYSTEM/370 ENVIRONMENT. IT ALSO DESCRIBES THE NATURE AND STRUCTURE OF THE SYSTEM, AND EXAMINES SEVERAL AREAS RELEVANT TO ITS FEASIBILITY.
- UNOS1358 UNIX COMMAND SYNTAX
COHEN, A. S. + OLSSON, S. B. + VOGEL, G. C.
FEBRUARY 16, 1979 THIS PAPER PROPOSES COMMAND-SYNTAX RULES AND A LIBRARY ROUTINE FOR ACHIEVE CONSISTENT SYNTAX.
- UNOS1359 UNIX/TS ALARM FACILITY
VOGEL, G. C.
MARCH 7, 1979 A GENERAL PURPOSE ALARM FACILITY FOR THE UNIX/TS OPERATING SYSTEM IS DESCR
- UNOS1360 RCMS/MERT PERFORMANCE STUDY AND GENERAL DESIGN GUIDELINES
AL, E. L. HEDRICK, ET
TM 79-4145-1, TM 79-2524-1, TM 79-3451-1 FEBRUARY 20, 1979 THIS DOCUMENT DESCRIBES THE RESULTS OF A RECENT EFFORT TO IMPROVE THE PERFORM RCMS SYSTEM. BASED ON THIS EXPERIENCE, A SET OF GUIDELINES FOR DESIGNERS UNIX BASED APPLICATIONS IS PRESENTED.
- UNOS1361 USE OF THE REVISED UNIX-TO-UNIX COPY COMMAND FOR LAB 323
LYON, R. B.
JANUARY 17, 1979 THE UUCP (UNIX-TO-UNIX COPY) COMMAND FACILITATES COMMUNICATION OF DATA BETWEEN UNIX MACHINES, MUCH AS THE COPY (CP) COMMAND PERMITS TRANSFER OF FILES WITHIN A UNIX MACHINE. THIS MEMO EXPLAINS HOW TO USE THE NEWLY-IMPLEMENTED VERSION OF UUCP.
- UNOS1364 UPDATE FILES FOR THE C STANDARD LIBRARY
KOENIG, A.
MARCH 8, 1979 THE C STANDARD LIBRARY DEFINITION HAS BEEN EXTENDED TO INCLUDE UPDATE FILES - FILES THAT CAN BE BOTH READ AND WRITTEN. THIS MEMORANDUM DESCRIBES THAT DEFINITION AND ITS IMPLEMENTATION UNDER THE UNIX OPERATING SYSTEM.
- UNOS1367 SOURCE CODE CONTROL SYSTEM USER'S GUIDE
BONANNI, L. E. - SALEMI, C. A.
TM 79-9441-4, TM 79-9442-1 APRIL 1, 1979 A DESCRIPTION OF THE PROGRAMMER'S WORKBENCH SOURCE CODE CONTROL SYSTEM.
- UNOS1368 DIRECT II INTERPROCESS COMMUNICATION
LINDERMAN, J. P.
TM 79-9188-3 MARCH 30, 1979 THIS MEMO DESCRIBES A COLLECTION OF SUBROUTINES WHICH WERE WRITTEN TO FACILITATE THE COMMUNICATION OF ARBITRARY DATA BETWEEN TWO COOPERATING PROCESSES.
- UNOS1369 SDB: A SYMBOLIC DEBUGGER
KATSEFF, M. P.
DECEMBER 1979 THIS DOCUMENT DESCRIBES A SYMBOLIC DEBUGGER, SDB, AS IMPLEMENTED FOR C PROGRAMS ON THE UNIX/32V OPERATING SYSTEM. SDB IS USEFUL BOTH FOR EXAMINING CORE IMAGES OF ABORTED PROGRAMS AND FOR PROVIDING AN ENVIRONMENT IN WHICH EXECUTION OF A PROGRAM CAN BE MONITORED AND CONTROLLED.
- UNOS1370 USING UNIX CAPABILITIES MORE EFFECTIVELY
MAYER, W. J.
JANUARY 30, 1979 A NEW UNIX PROGRAM IS INTRODUCED IN THIS MEMO THAT ALLOWS CONVENIENT TRANSFER OF DATA BETWEEN UNIX AND NON-UNIX TIME SHARED SYSTEMS.
- UNOS1371 OPD: UNIX - HONEYWELL INTERFACE PROGRAMS
WAGNER, M. R.
APRIL 6, 1979 THIS DOCUMENT DESCRIBES A SET OF PROGRAMS THAT INTERFACE BETWEEN UNIX AND THE HONEYWELL 8000 COMPUTER AT MURRAY HILL.
- UNOS1372 UNIX/RT ON A DEC VAX-11/780 PROJECT CONTRACT
KLEIN, R. L. - MARAZZANO, J. F.
MARCH 20, 1979 THIS MEMORANDUM DESCRIBES THE COMMITMENTS AND EXPECTATIONS IN THIS PROJECT
- UNOS1375 A 32-BIT PROCESSOR DESIGN
JOHNSON, S. C.
TM 79-1273-3 APRIL 2, 1979 THIS PAPER DESCRIBES A USER-LEVEL INSTRUCTION SET FOR A 32-BIT PROCESSOR.
- UNOS1379 COSNIX FILE MANAGEMENT (FM) COMMAND-SOFTWARE DEVELOPMENT AND CONTROL FACILITY
ROGAN, R. E.
TM 79-4552-3 MAY 15, 1979 THIS PAPER DESCRIBES COSNIX, THE OPERATING SYSTEM THAT FILE MANAGEMENT (FM) RUNS UNDER. FM PROVIDES THE USER WITH A COMPLETE WORKBENCH OF MASTER FILE MANAGEMENT SERVICES.
- UNOS1382 UNIX/TS AUGMENTED TASK FORCE REPORT
FAULKNER, R. A. - DEJAGER, D. S. - MCGUIRE, J. A. - SABSEVITZ, A. L.
MARCH 19, 1979 THIS REPORT DISCUSSES COMMON NEEDS OF CURRENT AND POTENTIAL USERS OF UNIX/TS AND RECOMMENDATIONS FOR THE UNIX/TS SUPPORT ORGANIZATION.
- UNOS1385 CHECKING FILE ACCESS PERMISSIONS IN UNIX SYSTEMS
LIONS, J.
JUNE 26, 1979 THIS MEMO DISCUSSES SOME PROPOSED CHANGES TO THE WAY FILE ACCESS PERMISSIONS ARE CHECKED IN THE UNIX TIME-SHARING SYSTEM.
- UNOS1391 PRELIMINARY CONSIDERATIONS FOR EXPLORATORY UNIX OPERATING SYSTEM WORK
LUDERER, G. W. R.
MAY 11, 1979 THIS MEMORANDUM DISCUSSES SOME PRELIMINARY THOUGHTS ABOUT THE POSSIBLE COURSE OF ACTION FOR WORK THAT WOULD LEAD TOWARDS ADAPTING UNIX TO FUTURE HARDWARE.
- UNOS1395 DEPARTMENT 362: MAXIUNIX WORKPLAN
HALL, J. T.
JUNE 1, 1979 THIS PAPER CONTAINS THE WORK PLAN FOR THE MAXIUNIX PROJECT WHICH IS BEING UNDERTAKEN BY THE "SOFTWARE AND COMPUTING TECHNOLOGY" DEPARTMENT OF LABORATORY 362.

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- UNOS1403 PWB/UNIX EDITION 2.0 PREPARATION
PETRELLA, M. J. + SABSEVITZ, A. L.
APRIL 1, 1978 THIS MEMORANDUM RECOMMENDS A PLAN TO FACILITATE THE CONVERSION TO PWB/UNIX EDITION 2.0.
- UNOS1411 A REMOTE FILE SYSTEM DRIVER FOR UNIX
GLASSER, A. L. + TING, D. W.
TM 79-3111-3 MAY 31, 1979 THIS MEMORANDUM DESCRIBES THE CONCEPT OF REMOTE FILE SYSTEMS. IT DESCRIBES AN IMPLEMENTATION FOR A READ-ONLY REMOTE FILE SYSTEM FACILITY, AND PROPOSES SOME POSSIBLE APPLICATIONS OF THIS IMPLEMENTATION.
- UNOS1422 DIRECT II VAX PERFORMANCE IMPROVEMENT ESTIMATES
HUBER, D. J. + ROCHE, V. D.
JULY 30, 1979 THIS MEMO IS AN EVALUATION OF THE POTENTIAL PERFORMANCE IMPROVEMENT OF MOVING DIRECT II FROM A POP-11/70 TO A VAX-11/780.
- UNOS1424 CHARACTER DEVICE DRIVER DEVELOPMENT FOR CB-UNIX OPERATING SYSTEM
MICHAEL, S.
TM 79-8282-2 JUNE 15, 1979 THIS MEMORANDUM DESCRIBES THE GENERAL CHARACTERISTICS OF CHARACTER DEVICE CONTROL UTILIZED IN THE COLUMBUS VERSION OF THE UNIX OPERATING SYSTEM (CB-UNIX) AND FOUR CHARACTER DEVICE DRIVERS WRITTEN TO SUPPORT THE HOTEL BILLING INFORMATION SYSTEM (HOBIS).
- UNOS1429 DIVISION 56 UNIX COURSE
WENDLAND, K. E.
NOVEMBER 20, 1979 THIS PAPER CONTAINS THE CLASS NOTES FROM AN INTRODUCTORY UNIX COURSE. THE NOTES ARE WRITTEN IN A TUTORIAL FORMAT, WHICH IS IDEAL FOR THE NOVICE; THEY ARE ALSO THOROUGHLY INDEXED, WHICH MAKES THEM A GOOD INDEX FOR EXPERIENCED UNIX USERS.
- UNOS1432 A DATABASE TRANSACTION BACKOUT AND CRASH RECOVERY SYSTEM
BURNETTE, W. A.
TM 79-9457-1 JULY 18, 1979 THIS MEMO DESCRIBES THE SYSTEM FOR DATABASE BACKOUT, BACKUP, AND RECOVERY, INCLUDING A DESCRIPTION OF THE UNIX/RT SYSTEM LEVEL IMPLEMENTATION.
- UNOS1434 ADDING REMOTE FILES TO UNIX - A PROGRESS REPORT ON THE FILE SERVER PROJECT
HAGGERTY, J. P. + KIRSLIS, P. A.
AUGUST 7, 1979 IT HAS BEEN PROPOSED THAT THE UNIX OPERATING SYSTEM BE SPLIT INTO TWO PARTS: A FILE SERVER THAT CONTAINS THE PART OF UNIX THAT DOES FILE MANAGEMENT, AND A STRIPPED UNIX THAT CONTAINS THE REST OF THE CODE AND RUNS USER PROCESSES. THIS PAPER PRESENTS A DESIGN FOR SUCH A PARTITIONING OF UNIX WHICH IS TRANSPARENT TO THE USER AND ALLOWS THE SAME OPERATIONS ON REMOTE FILES THAT ARE PRESENTLY PERMITTED ON LOCAL ONES.
- UNOS1435 DEPARTMENT 3624'S WORKPLAN FOR NETWORKING IN 1979/80
LUDERER, G. W. R.
JULY 16, 1979
- UNOS1436 LOAD CHARACTERIZATION FOR SDS/UNIX
HOLMES, V. P. - LAX, B. J. B. - LU, P. M. - PAPPAS, J. L.
JUNE 27, 1979 THIS STUDY EXAMINES FOUR PDR 11/70'S RUNNING PWB/UNIX 1.2 IN EXISTING SDS ENVIRONMENTS AND CHARACTERIZES THE LOAD ON THESE MACHINES.
- UNOS1437 A DIAL-UP NETWORK OF UNIX SYSTEMS
NOWITZ, D. A. - LESK, M. E.
TM 79-3782-2, TM 79-1274-7 JUNE 1, 1979 THIS MEMORANDUM DESCRIBES A NETWORK OF OVER EIGHTY UNIX COMPUTER SYSTEMS USING THE TELEPHONE SYSTEM AS ITS PRIMARY COMMUNICATION MEDIUM.
- UNOS1439 PROGRAM TESTING - WORK TO BE DONE
GRAMPP, F. T.
MAY 14, 1979 THIS DOCUMENT DESCRIBES WORK IN PROGRAM TESTING TO BE DONE BY DEPARTMENT 3624.
- UNOS1447 THE UNIX PROGRAMMING ENVIRONMENT
KERNIGHAN, B. W. + MASHEY, J. R.
JULY 1978 THIS PAPER PRESENTS A VARIETY OF EXAMPLES TO ILLUSTRATE METHODOLOGY, FOCUSING ON THOSE ASPECTS OF THE SYSTEM AND SUPPORTING SOFTWARE WHICH MAKE IT POSSIBLE.
- UNOS1449 ENGINEERING AND DATA ACQUISITION SYSTEM/NETWORK MANAGEMENT (EADAS/NM) CAPACITY ESTIMATION - METHODOLOGY AND DATA REQUIREMENTS
STUCK, B. W.
JULY 17, 1978 AN OVERVIEW OF THE CURRENT STATUS OF WORK ON ESTIMATING THE CAPACITY OF THE ENGINEERING AND DATA ACQUISITION SYSTEM /NETWORK MANAGEMENT (EADAS/NM) IS PRESENTED.
- UNOS1450 PERFORMANCE ASSESSMENT OF CUSTOMER SERVICE AND ADMINISTRATIVE CONTROL CENTER SYSTEM (CSACCS)
ARTHURS, E. + HAASE, J. L. + PEREA, C. - STUCK, B. W.
JULY 25, 1979 THIS REPORT SUMMARIZES RECENT WORK TO DETERMINE AND ENHANCE PERFORMANCE OF THE CUSTOMER SERVICE ADMINISTRATIVE CONTROL CENTER SYSTEM (CSACCS).
- UNOS1451 A VIRTUAL TERMINAL PROTOCOL FOR UNIX
GOLDSMITH, L. D.
TM 79-5412-1 AUGUST 6, 1979 THIS MEMORANDUM DESCRIBES A VIRTUAL TERMINAL PROTOCOL FOR THE USE IN UNIX SYSTEMS.
- UNOS1457 LSX PERFORMANCE
STURMAN, J. N.
TM 79-9323-2 SEPTEMBER 24, 1979 THIS PAPER DESCRIBES A NUMBER OF EXPERIMENTS WHICH WERE CONDUCTED TO MEASURE THE OPERATING CHARACTERISTICS OF A DIGITAL EQUIPMENT CORPORATION LSI-11, A 16 BIT MICROCOMPUTER UNDER CONTROL OF LSX, A MODIFIED SUBSET OF THE UNIX OPERATING SYSTEM.
- UNOS1458 AN AUGMENTED VERSION OF MAKE
BRADFORD, E. G.
TM 79-5255-1 JULY 1, 1979 THIS PAPER DESCRIBES AN AUGMENTED VERSION OF THE MAKE COMMAND SUPPLIED WITH UNIX/TS. IT DESCRIBES AND GIVES EXAMPLES ONLY OF ADDITIONAL FEATURES. SEE ALSO UNSU(1078)
- UNOS1459 SYNCHRONOUS TERMINALS FOR MERT
LAUR, J. E.
TM 79-9457-4 JULY 27, 1979 DESCRIBES SOFTWARE WHICH HAS BEEN DEVELOPED TO ALLOW SYNCHRONOUS TERMINALS TO INTERFACE WITH THE MERT OPERATING SYSTEM.

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- UNOS1462 THE DIRECT II SCHEDULER
CATO, M. E.
TM 79-9488-3 AUGUST 30, 1979 THIS DOCUMENT DESCRIBES THE CAPABILITIES OF THE SCHEDULER AND THE INTERNAL PROCESSING THAT IT PERFORMS.
- UNOS1463 FSCK - THE UNIX/TS FILE SYSTEM CHECK PROGRAM
KOWALSKI, T. J.
TM 79-3624-4 JULY 1, 1979 THIS PAPER DESCRIBES THE NORMAL UPDATING OF THE FILE SYSTEM, DISCUSSES THE POSSIBLE CAUSES OF FILE SYSTEM CORRUPTION, AND PRESENTS THE CORRECTIVE ACTIONS IMPLEMENTED BY FSCK.
- UNOS1466 TERMINAL HANDLING FOR UNIX/370 USING A FRONT END PROCESSOR
BUROFF, S. J.
TM 79-3628-2 SEPTEMBER 18, 1979 THIS DOCUMENT DESCRIBES THE TERMINAL SUPPORT FACILITIES WHICH MUST BE PROVIDED BY A FRONT END PROCESSOR FOR UNIX/370. THE DESCRIPTION IS DIVIDED INTO TWO PARTS: REQUIRED FEATURES AND OPTIONAL FEATURES.
- UNOS1469 SPS PROTOCOL IMPLEMENTED FOR OZ11 UNDER MERT RELEASE 0.1
SHANNON, M. J.
TM 79-3624-1 JUNE 1, 1979 THIS DOCUMENT DESCRIBES THE PROTOCOL, THE OZ11, THE IMPLEMENTATION OF THE OZ11 DRIVER, AND ITS RELATION TO THE FORMER DM11 DRIVER.
- UNOS1472 MULTI-PROCESSOR DMERT
SCHAN, E. P.
NOVEMBER 8, 1979 THIS PAPER OUTLINES A BASIC PLAN FOR A MULTI-PROCESSOR DMERT EXPLORATORY EFFORT BASED ON A SHARED MEMORY ARCHITECTURE.
- UNOS1473 THE LOGICAL FILE SYSTEM - A FAST-ACCESS FILE SYSTEM USING UNIX RAW I/O
MCKIMIN, J. R.
TM 79-9471-1 SEPTEMBER 14, 1979 THIS MEMORANDUM DESCRIBES LFS (LOGICAL FILE SYSTEM) DESIGN AND IMPLEMENTATION, AND ALSO SERVES AS A USER GUIDE.
- UNOS1474 TOOLS FOR THE EXTRACTION AND REDUCTION OF PWB/UNIX SOFTWARE MONITOR DATA
SONAMMI, L. E.
TM 79-3781-7 SEPTEMBER 15, 1979 DATA REDUCTION FUNCTIONS HAVE BEEN DEVELOPED INTO TWO PROTOTYPE PWB/UNIX COMMANDS, BAY AND SLICE. THIS MEMORANDUM SERVES AS A USER'S GUIDE FOR BAY AND SLICE, AND IS THEIR GENERAL DESIGN DOCUMENT.
- UNOS1475 A STAND-ALONE INPUT/OUTPUT LIBRARY
EISEN, S. R.
TM 79-3624-3 SEPTEMBER 4, 1979 A COMPLETE GUIDE TO THE STAND-ALONE I/O LIBRARY. THE SOFTWARE DESCRIBED WILL BE SUPPORTED IN UNIX/TS RELEASE 1.2 AND WILL BE AVAILABLE FROM THE USC STOCKROOM.
- UNOS1476 GUIDELINES FOR CONVERTING MERT SOFTWARE TO UNIX/RT
KAPLAN, R. S.
NOVEMBER 14, 1979 A SET OF GUIDELINES ARE PRESENTED TO ASSIST DMERT DEVELOPERS AND DMERT BASED APPLICATIONS IN THE CONVERSION OF THEIR EXISTING MERT-BASED SOFTWARE TO UNIX/RT.
- UNOS1480 RELATIVE CPU PERFORMANCE ON C LANGUAGE PROGRAMS
FEDER, J.
TM 79-3624-5 SEPTEMBER 28, 1979 THIS MEMORANDUM COMPARES A VARIETY OF CPUS WITH RESPECT TO EXECUTION SPEED AND OBJECT CODE SIZE USING SEVEN BENCHMARK PROGRAMS WRITTEN IN C.
- UNOS1481 UNIX LINE DISCIPLINE FOR IBM 2740-1 PROTOCOL
HUBER, D. J.
TM 79-3781-3 AUGUST 28, 1979 THIS MEMO DESCRIBES THE PROTOCOL OF A REMOTE CONSOLE LINE AND THE CODE MODIFICATIONS WHICH WERE MADE TO USC UNIX TO MAKE IT SUPPORT THAT PROTOCOL.
- UNOS1482 UNIX ASSEMBLER FOR THE INTEL 804X MICROPROCESSORS
MILLER, L.E.
TM 79-3231-2 AUGUST 1, 1979-THIS DOCUMENT IS A USERS MANUAL ON A UNIX ASSEMBLER FOR THE 8048/8041 SERIES OF MICROPROCESSORS. IT DESCRIBES THE USAGE, INPUT AND OUTPUT OF THAT ASSEMBLER.
- UNOS1483 UNIX/86: UNIX ON THE INTEL 8086
BLUMER, T. P. - MRMA, R.
NOVEMBER 1, 1979 THE BASIC IMPLEMENTATION STRATEGIES ARE DISCUSSED AND CHANGES TO THE SOURCE CODE (NECESSITATED BY DIFFERENCES IN HARDWARE) ARE DESCRIBED.
- UNOS1484 UNIX/TS DEVELOPMENT PLAN
HAIGHT, R. C.
DECEMBER 10, 1979 MAJOR ADDITIONS AND CHANGES TO THE UNIX/TS OPERATING SYSTEM FOR THE NEXT THREE RELEASES ARE DESCRIBED.
- UNOS1487 PRELIMINARY PERFORMANCE EVALUATION OF UNIVAC UNIX
GAAFF, D. A. DE - FEDER, J.
DECEMBER 4, 1979 THIS MEMORANDUM GIVES THE RESULTS OBTAINED IN PRELIMINARY BENCHMARK TESTING OF THE UNIVAC UNIX SYSTEM.
- UNOS1488 A MECHANISM OF STARTING A PROGRAM IN A UNIX BASED OPERATING SYSTEM
LO, D. S.
TM 79-3114-1 AUGUST 24, 1979 A DIFFERENT MECHANISM OF CREATING A NEW PROCESS AND EXECUTING A PROGRAM HAS BEEN IMPLEMENTED IN A SPECIAL PURPOSE OPERATING SYSTEM WHICH EVOLVED FROM UNIX.
- UNOS1490 UUCP ADMINISTRATORS' FILE AND THE UUNAME COMMAND
.AU "M. CHE" OCTOBER 31, 1979 TO HELP ADMINISTERING THE BELL LABS UUCP NETWORK, A FILE CONTAINING DATA ON THE ADMINISTRATOR OF EACH UUCP MEMBER SYSTEM HAS BEEN CREATED ON THE USC MACHINE.
- UNOS1491 UUSTAT - A UUCP STATUS INQUIRY PROGRAM
CHE, H.
OCTOBER 31, 1979 THIS PAPER GIVES A DETAILED DESCRIPTION AND IMPLEMENTATION OF THE UUSTAT COMMAND.
- UNOS1492 A SEND-ONLY UUCP FACILITY
CHE, H.
OCTOBER 31, 1979 THIS PAPER DISCUSSES THE USAGE AS WELL AS SOME DESIGN CONSIDERATIONS OF A SEND-ONLY UUCP MECHANISM.

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- UNOS1493 UNIX SPECIFICATION - FILE SYSTEM RELATED SYSTEM CALLS
VOGEL, G. C.
JANUARY 10, 1979 NEW DESCRIPTIONS FOR THE FILE SYSTEM RELATED SYSTEM CALLS.
- UNOS1494 A SUBROUTINE PACKAGE TO DO PROCESS CLEANUP
Dwyer, T. J.
TM 79-9487-7 DECEMBER 14, 1979 THIS MEMO DESCRIBES A SUBROUTINE PACKAGE, IMPLEMENTED IN C UNDER THE UNIX/RT OPERATING SYSTEM, WHICH PROVIDES FOR THE ORDERLY TERMINATION OF A SET OF COOPERATING PROCESSES.
- UNOS1495 UNIX SPECIFICATION - PROCESS RELATED SYSTEM CALLS
CANNATA, P. E.
JANUARY 28, 1980 NEW DESCRIPTIONS FOR THE PROCESS RELATED SYSTEM CALLS.
- UNOS1499 A SHELL OPERATOR FOR INTER-MACHINE COMMUNICATION
WITSCHORIK, C. A.
TM 79-5425-2 AUGUST 2, 1979 AN INTER-SHELL TRANSFER OPERATOR IS PROPOSED AS A USEFUL EXTENSION TO THE SYNTAX OF THE BOURNE SHELL. THE LANGUAGE OF A SHELL FOR A UTILITY TEST SYSTEM IS GIVEN AS AN EXAMPLE APPLICATION OF THE EXTENDED NOTATION.
- UNOS1500 SOME TIMING MEASUREMENTS OF EMTS, MESSAGE TRANSFERS AND CONTEXT SWITCHES FOR UNIX/RT
RALEIGH, T. M.
JANUARY 28, 1980 THIS MEMORANDUM PROVIDES SOME TIMING MEASUREMENTS OF IMPORTANT OPERATING SYSTEM FUNCTIONS FOR UNIX/RT.
- UNOS1501 A DEVICE INTERFACE FOR THE SANDERS GRAPHIC7 TERMINAL UNDER UNIX
WHITE, E. W.
TM 79-3753-2 OCTOBER 29, 1979 THIS REPORT DESCRIBES THE INTERFACE BETWEEN THE SANDERS GRAPHIC7 TERMINAL AND THE UNIX OPERATING SYSTEM. THE INTERFACE HAS BEEN USED TO EVALUATE THE GRAPHIC7 TERMINAL.
- UNOS1503 WORK RELATED TO UNIX-TO-UNIX FILE TRANSFER (UUCP) IN DEPARTMENT 3624 - RETROSPECTIVE AND OUTLOOK
LUDERER, G. W. R.
TM 79-3624-8 OCTOBER 31, 1979 THIS PAPER GIVES THE MOTIVATION FOR AND REPORTS ON THE UUCP-RELATED WORK DONE DURING THE PAST YEAR IN THE AUTHOR'S ORGANIZATION: NEW STATUS AND MONITORING COMMANDS, A SEND-ONLY FACILITY FOR SECURITY REASONS, ADMINISTRATIVE AIDS.
- UNOS1505 7TH EDITION UNIX - SUMMARY
LABORATORIES, BELL
SEPTEMBER 6, 1978 A CONCISE SUMMARY OF THE FACILITIES AVAILABLE ON 7TH EDITION UNIX.
- UNOS1506 SETTING UP UNIX - SEVENTH EDITION
MALEY, C. B. - RITCHIE, D. M.
JANUARY 1979 HOW TO CONFIGURE AND GET YOUR SYSTEM RUNNING.
- UNOS1507 REGENERATING SYSTEM SOFTWARE
MALEY, C. B. - RITCHIE, D. M.
JANUARY 1979 WHAT TO DO WHEN YOU HAVE TO CHANGE THINGS.
- UNOS1508 UNIX IMPLEMENTATION
THOMPSON, K.
JANUARY 1979 HOW THE SYSTEM ACTUALLY WORKS INSIDE.
- UNOS1509 NETWORK ADMINISTRATOR TASKS FOR UNIX FILE TRANSFER NETWORKS
CHE, H. - LUDERER, G. W. R.
TM 79-3624-7 SEPTEMBER 11, 1979 IT IS THE PURPOSE OF THIS PAPER TO DEFINE A MAINTENANCE TASK, CALLED THE NETWORK ADMINISTRATOR TASK.
- UNOS1514 A REAL-TIME SATELLITE SYSTEM BASED ON UNIX
MURREL, S. - KOWALSKI, T.
TM 79-1229-18, TM 79-3624-9 A HARDWARE AND SOFTWARE OVERVIEW OF PARASITE, A REAL-TIME SATELLITE SYSTEM BASED ON UNIX.
- UNOS1516 A SIMPLIFIED FRONT-END FOR SCCS
RUCABER, S.
TM 80-3844-1 JANUARY 10, 1980 THIS MEMORANDUM DESCRIBES A SERIES OF UNIX SHELL COMMANDS THAT TOGETHER PROVIDE A SIMPLIFIED FRONT-END FOR THE SOURCE CODE CONTROL SYSTEM(SCCS).
- UNOS1519 AN OPERATIONAL ANALYSIS STUDY OF UNIX/370
ZARROW, R. L.
MARCH 5, 1980 THIS ARTICLE GIVES AN INTRODUCTION TO OPERATIONAL ANALYSIS. THERE IS ALSO A DESCRIPTION OF A FUTURE OPERATIONAL ANALYSIS STUDY OF UNIX/370.
- UNOS1527 REAL-TIME PROCESSING UNDER UNIX
MURREL, S.
TM 79-1229-19 OCTOBER 26, 1979 THIS PAPER FIRST ADDRESSES THE REASONS WHY REAL-TIME REQUIREMENTS ARE NOT MET BY A USER PROGRAM RUNNING UNDER UNIX AND THEN BRIEFLY PRESENTS POSSIBLE SOLUTIONS TO THESE DIFFICULTIES.
- UNOS1534 SOFTWARE SEGMENTATION FOR LARGE INSTRUCTION SPACE ON THE PDP11
REISER, J. F.
TM 80-1363-1 JANUARY 30, 1980 THIS PAPER PRESENTS A SOFTWARE SEGMENTATION SCHEME WHICH ALLOWS UP TO 2 MEGABYTES OF INSTRUCTIONS PER PROCESS ON ANY PDP11 WITH MEMORY MANAGEMENT HARDWARE.
- UNOS1535 A MICROPROCESSOR BASED DATA ACQUISITION AND CONTROL SYSTEM
ROBBINS, M. F. + PRATT, G.
TM 80-1131-14 FEBRUARY 14, 1980 A DATA ACQUISITION, CONTROL AND DISPLAY SYSTEM IS DESCRIBED USING A Z-80 MICROPROCESSOR. A COMPLETE USERS MANUAL IS INCLUDED.
- UNOS1538 AN IMPROVED MAGNETIC TAPE DRIVER FOR THE UNIX/RT OPERATING SYSTEM
KUKUK, R. C.
TM 80-5446-1 FEBRUARY 29, 1980 THIS MEMORANDUM COMPARES THE STANDARD UNIX/RT TAPE DRIVER WITH THE MODIFIED TAPE DRIVER FOR THE SPECIAL FILE ACCESS SUBSYSTEM (FAS) FUNCTIONS.

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- UNOS1544 A MEMORY DEVICE DRIVER FOR UNIX
GLASSER, A. L.
TM 80-3168-5 MAY 9, 1980 THIS PAPER PRESENTS THE USER INTERFACE, IMPLEMENTATION, PERFORMANCE AND POSSIBLE FUTURE WORK.
- UNOS1555 ON MAKING THE UNIX FILE SYSTEM CRASH RESISTANT
GLASSER, ALAN L.
TM 80-3168-8 MAY 27, 1980 THIS MEMO DESCRIBES CHANGES MADE TO THE UNIX KERNEL THAT MAKE ITS FILE SYS CRASH RESISTANT. A SYSTEM RUNNING THIS MODIFIED KERNEL HAS A HIGHER DEGREE OF AVAILABILITY THAN A STANDARD UNIX SYSTEM.
- UNOS1556 SOURCE CONTROL + TOOLS = STABLE SYSTEMS
CRISTOFOR, EUGENE + VENOT, T. A. + WONSIEWICZ, B. C.
TM 80-3168-7 MAY 15, 1980 THIS PAPER DESCRIBES OUR EXPERIENCE IN ADMINISTERING THE SOFTWARE FOR A LARGE SYSTEM.
- UNOS1561 A DISTRIBUTED UNIX SYSTEM
GLASSER, ALAN L. + UNGAR, DAVID M.
TM 80-3168-6 MAY 9, 1980 THIS PAPER DESCRIBES A DISTRIBUTED UNIX SYSTEM THAT SUPPORTS A COMMUNITY OF SEVERAL HUNDRED COMPUTER PROGRAMMERS.
- UNOS1562 UNIX/370 CONVERSION GUIDE
RYAN, D. R.
MAY 30, 1980 THE PURPOSE OF THIS DOCUMENT IS TO PROVIDE A USER'S GUIDE TO PORTING C CODE TO UNIX/370. BASIC DIFFERENCES BETWEEN UNIX/370 AND UNIX ON THE PDP-11 AND VAX-11 ARE DESCRIBED FROM THE USER'S POINT OF VIEW.
- UNOS1568 A UNIX DIAGRAM NETWORK
UNGAR, DAVID M.
TM 80-3168-3 MAY 1, 1980 A DATAGRAM IS AN INDIVISIBLE AND COMPLETE REQUEST FOR A DESTINATION SYSTEM TO PERFORM A SPECIFIC ACTION WITH A SET OF DATA. THIS MEMO DESCRIBES A DATAGRAM-BASED NETWORK SOFTWARE FOR THE UNIX TIMESHARING SYSTEM IN ORDER TO SUPPORT A REMOTE FILE SYSTEM AND OTHER NETWORK APPLICATIONS.
- UNOS1569 USERS' GUIDE FOR THE PARASITE SYSTEM: A REAL-TIME SATELLITE SYSTEM BASED ON UNIX
MURREL, SHARON + KOWALSKI, TED
TM 80-1229-2 MAY 5, 1980 THIS MEMO IS INTENDED TO ASSIST USERS IN RUNNING A PROGRAM ON A SATELLITE LINKED TO A HOST UNIX SYSTEM USING THE PARASITE SATELLITE SYSTEM IT IS NOT INTENDED TO COMPREHENSIVELY DESCRIBE THE PARASITE SYSTEM, BUT RATHER SHOULD BE USED IN CONJUNCTION WITH THE PARASITE USER MANUAL.
- UNOS1570 AUTOMATIC CONFIGURATION OF CS UNIX SOFTWARE
SULLIVAN, P. D.
TM 80-5432-2 MAY 23, 1980 THIS MEMORANDUM DESCRIBES A SOFTWARE METHOD THAT DETERMINES IF AN EXPECTED HARDWARE ELEMENT IS CONNECTED TO A DIGITAL EQUIPMENT CORPORATION PDP-11 COMPUTER RUNNING CS UNIX VERSION 2.1. THE SAME TECHNIQUE SHOULD BE USABLE ON ANY PDP-11 BASED SYSTEM.
- UNOS1571 PROCESS RECOVERY
MENZEL, F. S.
TM 80-3121-5 MAY 29, 1980 THIS MEMORANDUM DESCRIBES AN EXPERIMENTAL FLIGHT RECORDER MECHANISM WHICH WOULD PERMIT AUTOMATIC RESTART OF FAILED PROCESSES WITHOUT LOSS OF INFORMATION.
- UNOS1572 AN ANALYSIS OF KERNEL MESSAGE BUFFER UTILIZATION IN UNIX/RT
KURUK, R. C.
TM 80-5448-2 JUNE 16, 1980 A PROGRAM TO ANALYZE KERNEL MESSAGE BUFFER USAGE WAS WRITTEN. THIS PROGRAM MONITORED THE KERNEL MESSAGE BUFFER WHILE A SET OF 2P2 SIMULATION PROGRAMS WAS RUN. THIS MEMORANDUM DOCUMENTS THE RESULTS OF THAT EXPERIMENT.
- UNOS1573 PARASITE USER'S MANUAL: A REAL-TIME SATELLITE SYSTEM BASED ON UNIX
KOWALSKI, T. J. + MURREL, S. L.
TM 80-1229-4 JUNE 1, 1980 THIS MEMO IS THE REFERENCE MANUAL FOR THE PARASITE SYSTEM.
- UNOS1579 EXCLUSIVE USE OF FILES IN THE UNIX/RT SYSTEM
BRAUN, D. A.
TM 80-5354-1 MAY 28, 1980 THIS MEMORANDUM DESCRIBES A CHANGE TO THE UNIX/RT SYSTEM THAT PROVIDES A METHOD OF OPENING A FILE FOR THE EXCLUSIVE USE BY A SINGLE PROCESS OR GROUP OF RELATED PROCESSES.
- UNOS1580 DATA SWITCH REQUIREMENTS FOR A LOCAL AREA COMPUTER NETWORK
LUDERER, G. W. R.
TM 80-3633-6 APRIL 25, 1980 THIS PAPER DISCUSSES THE REQUIREMENTS FOR A DATA SWITCH FROM THE POINT OF VIEW OF THE BUILDERS OF LOCAL AREA COMPUTER NETWORKS AND DISTRIBUTED SYSTEMS.
- UNOS1581 PRELIMINARY RELIABILITY AND TRAFFIC PERFORMANCE ANALYSIS FOR LOOP MAINTENANCE OPERATIONS SYSTEM (LMOS)
ARTHURS, E. + HOLTMAN, J. P. + STUCK, B. W.
APRIL 8, 1980 THIS REPORT IS CONCERNED WITH QUANTIFYING THE RELIABILITY AND PERFORMANCE LIMITATIONS OF THE PRESENT SYSTEM, AND SUGGESTING GUIDELINES FOR ASSURING ADEQUATE PERFORMANCE OF THE PROPOSED IMPLEMENTATION.
- UNOS1582 PRELIMINARY RELIABILITY AND TRAFFIC PERFORMANCE ANALYSIS FOR SATELLITE NETWORK CONTROLLER (SNC) FOR PICTUREPHONE MEETING SERVICE (PMS)
ARTHURS, E. + REINHARDT, C. A. + SAVOIAINE, C. G. + STUCK, J. C. SELSO B.
JULY 23, 1980 THESE NOTES ARE A PROGRESS REPORT ON PRELIMINARY TRAFFIC LIMITATIONS AS WE HIGH LEVEL SYSTEM ENGINEERING OVERVIEW.
- UNOS1583 SOCCOM: LSX SHARED OBJECT CODE AND COMMON MEMORY SYSTEM
HAWKINS, J. P.
TM 80-2425-2 JULY 28, 1980 THIS MEMO DESCRIBES A METHOD OF SHARING SUBROUTINE CODE AND COMMON DATA STORAGE IMPLEMENTED ON THE LSX (LSI-11 UNIX) OPERATING SYSTEM USED IN DEPT 2425.
- UNOS1585 ZSM - AN EXPERIMENTAL SHELL FOR CONNECTING PROCESSES WITH MULTIPLE DATA STREAMS
ROCKKIND, MARC J.
TM 80-9323-3 AUGUST 1, 1980 THE STANDARD UNIX SHELL SM PROVIDES THE & OPERATOR FOR BUILDING A LINEAR PIPELINE OF COMMANDS. ZSM EXTENDS THIS IDEA BY PROVIDING OPERATORS FOR BUILDING NONLINEAR PIPELINES. THIS MEMO ASSUMES THE READER IS THOROUGHLY FAMILIAR WITH SM.

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- UNOS1588 UNIX ON THE PDP-11/23 AND 11/34 COMPUTERS
KOWALSKI, T. J.
TM 80-1229-9 AUGUST 15, 1980 THIS PAPER DESCRIBES ARCHITECTURAL DIFFERENCES BETWEEN THE PDP-11/70, PDP-11/23, AND PDP-11/34 COMPUTERS, THEIR INTERACTION WITH THE UNIX OPERATING SYSTEM AND THE CHANGES THE AUTHOR IMPLEMENTED IN THAT SYSTEM TO MAKE IT RUN ON THE PDP-11/23 AND PDP-11/34, ALONG WITH SOME CONSIDERATIONS FOR THE FUTURE.
- UNOS1604 USING A COMPUTER NETWORK AS A CACHE MEMORY: DESIGN AND IMPLEMENTATION
ELLIOTT, R. J. + LESK, M. E.
TM 80-1273-6, 80-1274-7 SEPTEMBER 15, 1980
- UNOS1605 RESPONSE TIME AND USER SATISFACTION ON A UNIX SYSTEM
LESK, MICHAEL E.
TM 80-1274-10 SEPTEMBER 30, 1980 MEASUREMENTS OF RESPONSE TIME WERE TAKEN EVERY TWENTY MINUTES FOR TWO WEEKS ON THE CENTER 127 RESEARCH UNIX SYSTEM.
- UNOS1606 SSPS - A SIMPLE SATELLITE PROCESSOR SYSTEM
ROBBINS, M. F. + PRATT, GILL
TM 80-1131-70 OCTOBER 21, 1980 THIS PAPER DESCRIBES THE COMMUNICATIONS PROTOCOL WHICH WAS ESTABLISHED TO IMPLEMENT THE SYSTEM AND DESCRIBES THE SPECIFIC IMPLEMENTATION OF THE SYSTEMS IN DEPT 1131.
- UNOS1607 STRUCTURE OF A UNIX DATABASE FILE SYSTEM
ROCHKIND, MARC J.
TM 80-9323-5 OCTOBER 30, 1980 A DATABASE FILE SYSTEM IS THE LOW-LEVEL PART OF A DATABASE MANAGEMENT SYSTEM THAT HANDLES DATA STORAGE, INDEXING, CONCURRENCY CONTROL, TRANSACTION CONTROL AND RECOVERY. THIS MEMO DESCRIBES A STRUCTURE FOR A DATABASE FILE SYSTEM THAT ENCAPSULATES IMPORTANT DESIGN DECISIONS INTO SEPARATE MODULES.
- UNOS1608 YET ANOTHER CRASH RESISTANT UNIX FILE SYSTEM
BROVMAN, I.
TM 80-3165-3 NOVEMBER 13, 1980
- UNOS1621 SETTING UP PARASITE: A REAL-TIME SATELLITE SYSTEM BASED ON UN
KOWALSKI, T. J. - MURREL, S. L.
TM 80-1229-3 JUNE 24, 1980 THIS MEMO IS THE SETUP AND RECONFIGURATION MANUAL FOR THE PARASITE SYSTEM. IT DESCRIBES IN DETAIL THE INITIAL INSTALLATION FROM TAPE, THE RECONFIGURATION PROCEDURES, AND THE ADDITION OF DEVICE DRIVERS TO THE PARASITE SYSTEM.
- UNOS1622 THE UNIX MYSTIQUE OR WHAT UPPER MANAGEMENT SHOULD KNOW ABOUT UNIX
HOLTMAN, J. P.
TM 80-9321-2 OCTOBER 17, 1980 LIMITATIONS OF UNIX AS THE BASE FOR TRANSACTION SYSTEMS WILL BE DISCUSSED IN THIS MEMO.
- UNOS1623 A SATELLITE PROCESSOR SYSTEM FOR THE MOTOROLA MC68000
KATSEFF, H. P. - LONDON, T. S.
TM 80-1353-13 DECEMBER 1, 1980 A DESCRIPTION OF A UNIX-LIKE EXECUTION ENVIRONMENT CONSTRUCTED FOR THE MOTOROLA MC68000 MICROPROCESSOR.
- UNOS1632 THE UNIX MYTHOS AND WHAT UPPER MANAGEMENT SHOULD ASK ABOUT UNIX
DEJAGER, D. S.
JANUARY 5, 1981 THIS MEMORANDUM ATTEMPTS TO DEMYTHOLOGIZE CERTAIN ASPECTS OF UNIX, AND SUGGESTS THAT A CONSCIOUS POLICY FOR FUTURE DEVELOPMENTS NEEDS TO BE DEFINED.
- UNOS1636 DESCRIPTION OF CHANGES IN LEAP RELEASE 3.07
QUINN, M. E.
FEBRUARY 17, 1981 THE LEAP SYSTEM HAS BEEN MODIFIED TO RUN ON DIFFERENT HARDWARE. THIS MEMO DESCRIBES, FOR USERS, THE CHANGES TO LEAP IN RELEASE 3.07.
- UNOS1639 SHARED MEMORY FOR UNIX
POLSKY, R. A. + HENRY, G. J.
DECEMBER 19, 1980 THE PURPOSE OF THIS PAPER IS TO DESCRIBE ANOTHER VERSION OF SHARED MEMORY.
- UNOS1652 DESIGN INTERNALS OF S-UNIX 3.0
BACH, M. J.
FEBRUARY 2, 1981 THIS PAPER DISCUSSES THE DESIGN AND IMPLEMENTATION OF UNIX OPERATING SYSTEM ALGORITHMS USED TO ACCOMMODATE REMOTE FILE SERVER MACHINES IN THE S-UNIX/F-UNIX PROJECT.
- UNOS1653 THE SYSTEM ACTIVITY PACKAGE - UNIX 4.0
PAO, TSYH-WEN
JANUARY 6, 1981 THIS MEMO DESCRIBES THE DESIGN AND IMPLEMENTATION OF THE UNIX SYSTEM ACTIVITY PACKAGE FOR UNIX 4.0.
- UNOS1654 EXPANDING A UNIX/1100 FILE SYSTEM
ORSHAN, S. O.
MARCH 27, 1981 A METHOD IS DESCRIBED FOR THE EXPANSION OF THE INODE AND FREE-LIST SPACE OF AN EXISTING UNIX/1100 FILE SYSTEM RESIDING IN A UNIVAC FILE.
- UNOS1661 UNIX RELEASE 4.0 - HIGHLIGHTS OF CHANGES TO COMMANDS
CARLSON, FRED M. + RUSH, R. R.
DECEMBER 11, 1980 THIS DOCUMENT HIGHLIGHTS CHANGES MADE TO UNIX COMMANDS BY THE UNIX COMMANDS AND TEXT PROCESSING GROUP OF DEPT. 3883 IN PREPARATION FOR UNIX RELEASE 4.0. A COMPANION DOCUMENT, "UNIX RELEASE 4.0 - CHANGES TO TEXT PROCESSING SOFTW DEC. 11, 1980, BY M. E. BOCK OUTLINES CHANGES TO TEXT SOFTWARE. SEE ALSO UNOS(1661)
- UNOS1662 UNIX PRODUCT RELEASE DESCRIPTION RELEASE 4.0
45174, DEPARTMENT
MARCH 1981
- UNOS1663 EXPANDED TEXT SAPEC FOR THE PDP 11/70.
SMITH, A. O.
TM 81-99473-1 JANUARY 6, 1981 A DESIGN IS PRESENTED TO INCREASE THE MAXIMUM USABLE TEXT AREA FOR THE UNIX KERNEL TO 237568 BYTES. THE DESIGN DESCRIBED HERE RELATES SPECIFICALLY TO KERNEL TEXT SPACE PROBLEMS ON THE PDP 11/70 WITH POSSIBILITY OF USING THE SAME TECHNIQUE ON THE PDP 11/23.

"UNOS - OPERATING SYSTEM"

- UNOS1664 **ESCAPING UNIX: A MECHANISM FOR DEMON COOPERATION IN THE OPERATING SYSTEM**
RABINOWITZ, M. S.
TM 81-43188-1 JANUARY 9, 1981 THIS PAPER DISCUSSES THE CHANGES TO UNIX NEEDED TO IMPLEMENT THE ESCAPE MECHANISM, SHOWS THE ACTUAL WORKINGS OF THE MECHANISM, AND INDICATES ITS USEFULNESS IN THE CONTEXT OF A MULTIMACHINE TRANSPARENT FILE-SHARING SYSTEM IMPLEMENTED BY DEPARTMENT 43188.
- UNOS1665 **TRANSACTION FILE MANAGER (TFM) PERFORMANCE IMPROVEMENTS**
CARFAGNO, J. A.
TM 81-59332-2 MARCH 3, 1981 THIS MEMO PRESENTS A SET OF NEW ALGORITHMS WHICH GREATLY IMPROVE TFM PERFORMANCE, ESPECIALLY TFM INITIALIZATION.
- UNOS1682 **AN ANALYTIC MODEL FOR DISTRIBUTED COMPUTER PERFORMANCE EVALUATION**
ARTHURS, E. + STUCK, S. W.
TM 81-45173-2 MARCH 20, 1981
- UNOS1687 **THE TRANSPARENT FILE SHARING SYSTEM: A MULTI-MACHINE UNIX FILE SYSTEM USING VIRTUAL CIRCUITS**
RABINOWITZ, M. S.
TM 81-43188-2 JANUARY 26, 1981 SECTION 1 OF THIS PAPER DISCUSSES THE TFSS IN THE CONTEXT OF OTHER DISTRIBUTED FILE SYSTEMS RUNNING UNDER UNIX. SECTION 2 SHOWS THE ENVIRONMENT UNDER WHICH TFSS RUNS (BOTH INTRA-MACHINE AND INTER-MACHINE). SECTION 3 EXPLAINS THE ADMINISTRATIVE PRELIMINARIES NEEDED TO SET UP TFSS. SECTION 4 EXPLAINS HOW TFSS WORKS. SECTION 5 SHOWS THE SIMPLICITY OF RECONFIGURATION USING TFSS. SECTION 6 SUGGESTS FUTURE DIRECTIONS FOR TFSS.
- UNOS1688 **SDS/NET - AN INTERACTIVE DISTRIBUTED OPERATING SYSTEM**
ANTONELLI, C. J. + HAMILTON, L. S. + LU, P. M. + WALLACE, J. J. + YUEH, K.
TM 81-46164-1, TM 81-46182-1, TM 81-45181-1, TM 81-45182-3, TM 81-45183-1 SDS/NET WAS DEVELOPED TO SUPPORT INTERACTIVE OPERATIONS FOR A DISTRIBUTED SYSTEM CONSISTING OF MACHINES RUNNING THE UNIX OPERATING SYSTEM.
- UNOS1713 **VIRTUAL CIRCUITS IN A MULTIPLE UNIX SYSTEM**
KAUFELD, J. C. + RUSSELL, D. L.
TM 81-43188-5 JULY 10, 1981 THE DATA COMMUNICATION SYSTEMS LABORATORY OF BELL LABORATORIES ENGAGED IN A PROJECT TO DEVELOP AN EXPERIMENTAL MULTI-MACHINE OPERATING SYSTEM. THIS SYSTEM PRESERVES THE APPEARANCE OF THE UNIX OPERATING SYSTEM TO ITS USERS, AND IS KNOWN AS THE D/UNIX SYSTEM. DEVELOPMENT OF THE SYSTEM INVOLVES SOFTWARE MODIFICATIONS TO THE UNIX SYSTEM, A LAYER OF DISTRIBUTED SOFTWARE FOR MULTI-MACHINE CONTROL, AND ADDITION OF CUSTOM-BUILT HARDWARE.
- UNOS1714 **USER SPACE I/O COMMANDS GIVE UNIX REAL-TIME CAPABILITIES**
KROPFL, W. J.
TM 81-11223-3 JUNE 19, 1981 TWO SYSTEM CALLS, USIO (USER SPACE I/O) AND SETUVEC (SET USER VECTOR), HAVE BEEN ADDED TO UNIX 3.0 TO PERMIT THE EXECUTION OF I/O INSTRUCTIONS AN INTERRUPT ROUTINES DIRECTLY FROM USER SPACE. EXAMPLES ARE GIVEN ILLUSTRATING THE USE OF THE COMMANDS IN WRITING REAL-TIME PROGRAMS.
- UNOS1715 **A VIEW ON SOFTWARE CONTROL FOR UNIX RELEASES**
HERGENHAN, C. S.
TM 81-45177-1 JULY 14, 1981 THIS MEMO ADDRESSES SOME OF THE TECHNICAL ISSUES ASSOCIATED WITH SOFTWARE DEVELOPMENT AND PROPOSES AN INITIAL SOLUTION. IT ALSO NOTES THAT WITH CURRENT TECHNOLOGY, THE HARDER ISSUES ARE MANAGEMENT RELATED.
- UNOS1716 **PROGRAMMING THE MOTOROLA M68000**
ABATE, R. J.
AUGUST 20, 1981 THIS MEMORANDUM CONTAINS USEFUL INFORMATION FOR USING THE MOTOROLA VERSAMODULE MICROCOMPUTER.
- UNOS1717 **DESIGN AND PERFORMANCE ANALYSIS OF COMPUTER INTERFACES FOR A DATAKIT-BASED COMPUTER NETWORK**
CHE, H. + MARSHALL, W. T.
TM 81-46192-4 JULY 22, 1981 THIS PAPER DESCRIBES HARDWARE, SOFTWARE, AND FIRMWARE IMPLEMENTATIONS OF AN INTERFACE BETWEEN DEC POP-11 OR VAX 11/780 COMPUTERS AND THE DATAKIT SWITCH.
- UNOS1718 **XDB: AN EXTENDED DEBUGGER**
MANISCHEWITZ, S. S.
TM 81-59321-3 JULY 24, 1981 XDB, IS AN ENHANCED VERSION OF SDB. THIS MEMO DESCRIBES THE ADDITIONAL FEATURES OF XDB. IT ASSUMES FAMILIARITY WITH SDB.
- UNOS1733 **OFFICE AUTOMATION SYSTEM (OAS) PERFORMANCE STUDY**
CHEN, D. + FIALKOFF, R.
TM 81-45281-15 AUGUST 14, 1981 A PERFORMANCE STUDY OF DEPARTMENT 46177'S PROTOTYPE OFFICE AUTOMATION SYSTEM (OAS) WORD PROCESSING FUNCTION HAS BEEN CONDUCTED. OAS, WHICH RUNS ON THE UNIX SYSTEM, PROVIDES FULL SCREEN EDITING, AS WELL AS OTHER TOOLS TO FACILITATE OFFICE OPERATION. THE OBJECTIVE OF THE PERFORMANCE STUDY HAS BEEN TO EXPLORE OAS CAPACITY, SPECIFICALLY IN THE AREA OF DOCUMENT CREATION AND REVISION.

"UNPL - PROGRAMMING LANGUAGES"

- UNPL1001 PROGRAMMING IN C - A TUTORIAL (8.9)
KERNIGHAN, B. W.
TM 74-1273-12 MAY 5, 1974 SEE ALSO UNPL(1002)
- UNPL1002 THE C PROGRAMMING LANGUAGE - REFERENCE MANUAL
RITCHIE, D. M.
JANUARY, 1979 SEE ALSO UNPL(1001)
- UNPL1009 A MANUAL FOR THE TMC COMPILER-WRITING LANGUAGE
MCILROY, M. D.
SEPTEMBER 13, 1972 MM 72-1271-6
- UNPL1012 UNIX ASSEMBLER REFERENCE MANUAL
RITCHIE, D. M.
- UNPL1013 YACC - YET ANOTHER COMPILER COMPILER
JOHNSON, S. C.
TM 78-1273-4 JULY 31, 1978 CONVERTS A BNF SPECIFICATION OF A LANGUAGE AND SEMANTIC ACTION WRITTEN IN C INTO A COMPILER FOR THE LANGUAGE.
- UNPL1018 GRAPPAC/FR80 - A C VERSION OF DEFERRED GRAPPAC UNDER THE UNIX TIME-SHARING SYSTEM.
SWANSON, G. K.
TM 74-1353-6 SEPTEMBER 23, 1974
- UNPL1053 BC - AN ARBITRARY PRECISION DESK CALCULATOR LANGUAGE
CHERRY, L. + MORRIS, R.
NOVEMBER 12, 1978 BC IS A LANGUAGE AND A COMPILER FOR DOING ARBITRARY PRECISION ARITHMETIC ON THE PDP-11 UNDER THE UNIX TIME-SHARING SYSTEM.
- UNPL1056 DC - AN INTERACTIVE DESK CALCULATOR
CHERRY, L. + MORRIS, R.
NOVEMBER 15, 1978 DC IS AN INTERACTIVE DESK CALCULATOR PROGRAM IMPLEMENTED ON THE UNIX TIME-SHARING SYSTEM TO DO ARBITRARY-PRECISION INTEGER ARITHMETIC.
- UNPL1061 LEX - A LEXICAL ANALYZER GENERATOR
LESK, M. E. + SCHMIDT, E.
JANUARY 1979 LEX HELPS WRITE PROGRAMS WHOSE CONTROL FLOW IS DIRECTED BY INSTANCES OF REGULAR EXPRESSIONS IN THE INPUT STREAM.
- UNPL1063 A DESCRIPTION OF HOW UNIX FORTRAN WORKS
WINHEIM, I. A.
TM 75-8234-3 APRIL 10, 1975 THIS MEMORANDUM DESCRIBES THE MAIN DIFFERENCES BETWEEN C AND FORTRAN AND HOW TO INTERFACE FORTRAN WITH THE OPERATING SYSTEM.
- UNPL1064 AGEN - AN ASSOCIATED MEMORY GENERATOR
LESK, M. E.
TM 75-1274-18 SEPTEMBER 2, 1975 AGEN IS A PROGRAM GENERATOR FOR TABLE SEARCHES. IT ALSO WRITES PROGRAMS TO STORE AND RETRIEVE INFORMATION.
- UNPL1074 A LIBRARY OF REFERENCE STANDARD MATHEMATICAL SUBROUTINES
MORRIS, R.
TM 75-1271-6 MAY 1, 1975 THIS MEMO DESCRIBES A SET OF MATHEMATICAL LIBRARY FUNCTIONS TO USE ARBITRARY ACCURACY. RELEVANT ERROR ANALYSIS AND SUBROUTINES LISTINGS ARE GIVEN.
- UNPL1079 BLOSIM - A DISCRETE TIME BLOCK SIMULATOR
(MIT), G. ROYLANCE + DOLAN, M. T. + KAISER, J. F.
TM 75-1352-6 JULY 15, 1975 THIS MEMORANDUM DESCRIBES THE LANGUAGE, VARIABLE PRECISION, IMPLEMENTATION, AND GENERAL USE OF BLOSIM.
- UNPL1080 UNIX FACILITIES FOR THE DEVELOPMENT OF PROGRAMS WRITTEN IN MACRO-11.
JENSEN, P. D.
TM 75-8234-14 DECEMBER 5, 1975 THIS MEMO DESCRIBES THE INITIAL SET OF FACILITIES AVAILABLE UNDER UNIX FOR USE IN DEVELOPING PROGRAMS WRITTEN IN DOS MACRO-11, AND BOS & BOS APPLICATION PROGRAMS IN PARTICULAR.
- UNPL1084 STRUCT - A PROGRAM WHICH STRUCTURES FORTRAN
BAKER, B. S.
TM 75-1271-12 DECEMBER 22, 1975 STRUCT IS A PROGRAM WHICH REWRITES FORTRAN PROGRAMS USING RATFOR CONTROL CONSTRUCTS, SUCH AS WHILE AND IF ELSE STATEMENTS. THESE CONSTRUCTS ARE USED BY STRUCT TO MAKE LOOPS AND BRANCHING APPARENT. SEE ALSO UNPL(1103)
- UNPL1097 SIM - A LANGUAGE FOR SIMULATING COMPUTERS
CHERRY, L. L.
TM 76-1271-2 MAY 5, 1976 SIM IS A LANGUAGE AND COMPILER FOR WRITING COMPUTER AND MICROPROCESSOR SIMULATORS. SIM CURRENTLY RUNS UNDER UNIX AND WILL SOON BE AVAILABLE UNDER GCOS.
- UNPL1101 A REGULAR EXPRESSION MATCHER FOR THE C LANGUAGE
SABSEVITZ, A. L.
TM 76-9141-5 JUNE 2, 1976 THIS MEMORANDUM DESCRIBES A PRIMITIVE REGULAR EXPRESSION MATCHING FACILITY WRITTEN FOR LANGUAGE C. ROUTINES HAVE BEEN PROVIDED TO COMPILE REGULAR EXPRESSIONS AND TO APPLY SUCH COMPILED EXPRESSIONS TO STRING SUBJECTS.
- UNPL1102 SOME STATISTICS ON THE USAGE OF THE C LANGUAGE
CAJEWSKA, M. + JOHNSON, S. C.
TM 75-1273-13 NOVEMBER 24, 1975 THIS PAPER DESCRIBES A PROGRAM THAT ANALYSES PROGRAMS WRITTEN IN THE C LANGUAGE.
- UNPL1103 AN ALGORITHM FOR STRUCTURING FLOWGRAPHS
BAKER, B. S.
TM 76-1271-3 MAY 14, 1976 THIS PAPER DESCRIBES AN ALGORITHM WHICH TRANSFORMS A FLOWGRAPH INTO A PROGRAM CONTAINING IF THEN ELSE AND REPEAT (DO FOREVER) STATEMENTS. THE ALGORITHM HAS BEEN IMPLEMENTED IN A PROGRAM CALLED STRUCT. SEE ALSO UNPL(1084)

"UNPL - PROGRAMMING LANGUAGES"

- UNPL1105 AN INTERACTIVE CONTROL LANGUAGE FOR SIM:
CHERRY, L. L.
TM 76-1271-8 JUNE 28, 1976 THIS PAPER IS INTENDED TO BE A REFERENCE MANUAL AND ASSUMES FAMILIARITY WITH SIM.
- UNPL1107 PROGRAMMER'S WORKBENCH PAPERS FROM THE SECOND INTERNATIONAL CONFERENCE ON SOFTWARE ENGINEERING.
(G.4)
, T. A. DOLOTTA, ET AL.
FOR COMPLETE INFORMATION, SEE UNED (G.4)
- UNPL1143 A STYLE SHEET FOR C PROGRAMMING, ISSUE 1
GLASSER, A. L.
FEBRUARY 28, 1977 MEMORANDUM FOR FILE THE "--STYLE SHEET" DESCRIBES THE RECOMMENDED STYLE (PHYSICAL LAYOUT AND APPEARANCE) FOR WRITING C PROGRAMS IN CENTER 914.
- UNPL1149 UNIX ASSEMBLER FOR THE INTEL 8080 MICROPROCESSOR
MOLINELLI, J. J.
TM 77-3233-4 MARCH 17, 1977 THIS DOCUMENT DESCRIBES THE USAGE, INPUT, AND OUTPUT OF AN ASSEMBLER FOR THE INTEL 8000 SERIES MICROPROCESSORS.
- UNPL1150 REISSUE NO. 1 OF MAC-8 ASSEMBLER USER'S MANUAL
KIRBY, D. B.
TM 77-2265-2 MAY 20, 1977 THIS MANUAL DESCRIBES THE MAC-8 ASSEMBLY LANGUAGE. IT DOES NOT DESCRIBE THE MAC-8 MACHINE. IT SUMMARIZES ALL OF THE MACHINE INSTRUCTIONS, ALL ADDRESSING MODES, AND ALL TESTABLE MACHINE CONDITIONS. THIS IS A REVISION OF TM 76-4393-16
- UNPL1157 A GENERAL-PURPOSE SUBROUTINE LIBRARY FOR PWB/UNIX (B.11)
GLASSER, A. L.
TM 77-9144-2 APRIL 27, 1977 THIS LIBRARY WAS DESIGNED TO BE UPWARDLY COMPATIBLE WITH TWO PREVIOUS LIBRARIES AND TO COMPLEMENT THE FUNCTIONS PROVIDED BY D. RITCHIE'S "--A NEW INPUT-OUTPUT PACKAGE".
- UNPL1160 THE M4 MACRO PROCESSOR
KERNIGHAN, B. W. + RITCHIE, D. M.
JULY 1, 1977 M4 IS A MACRO PROCESSOR AVAILABLE ON UNIX AND GCOS. M4 IS PARTICULARLY SUITED FOR FUNCTIONAL LANGUAGES LIKE FORTRAN, PL/1 AND C SINCE MACROS ARE SPECIFIED IN A FUNCTIONAL NOTATION. THIS PAPER IS A USER'S MANUAL FOR M4.
- UNPL1166 MAC-8 C FOR BEGINNERS
ROVEGNO, H. D.
TM 77-4393-2 APRIL 1, 1977 THIS MEMORANDUM WILL SERVE AS A TUTORIAL FOR THE C LANGUAGE WITH EMPHASIS ON THOSE FEATURES WHICH ARE MOST USEFUL TO THE MICROPROCESSOR USER AND SPECIAL TO THE MAC-8.
- UNPL1185 A TUTORIAL INTRODUCTION TO ADB
MARANZANO, J. F. + BOURNE, S. R.
TM 77-8234-11, TM 77-1273-10 MAY 5, 1977 ADB IS AN INDISPENSABLE BUT COMPLEX TOOL FOR DEBUGGING CRASHED SYSTEMS AND/OR PROGRAMS. THIS DOCUMENT PROVIDES AN INTRODUCTION TO ADB WITH EXAMPLES OF ITS USE.
- UNPL1193 RATFOR - A PREPROCESSOR FOR A RATIONAL FORTRAN
KERNIGHAN, B. W.
JANUARY 1979 THIS PAPER DISCUSSES DESIGN CRITERIA FOR A FORTRAN PREPROCESSOR, THE RATFOR LANGUAGE AND ITS IMPLEMENTATION, AND USER EXPERIENCE.
- UNPL1199 "--INTRODUCTION TO SOFTWARE" - A VIDEOTAPE COURSE
ROSIN, R. F.
TM 77-3233-9 OCTOBER 3, 1977 THIS MEMORANDUM DESCRIBES THE CONTEXT IN WHICH LECTURES OF 32 HOURS WERE PREPARED AND SUGGESTED WAYS IN WHICH VIDEOTAPES AND ASSOCIATED COMPUTER FILES MIGHT BE USED IN FUTURE COURSES.
- UNPL1200 INTERACTIVE GRAPHICS SYSTEM FOR A UNIX ENVIRONMENT
JACKSON, J. H.
TM 77-5221-2 SEPTEMBER 29, 1977 THIS MEMORANDUM DESCRIBES A SYSTEM OF INTERACTIVE GRAPHIC SUBROUTINES WHICH HAS BEEN IMPLEMENTED UNDER THE UNIX TIME-SHARING SYSTEM.
- UNPL1203 INTER-UNIX PORTABILITY
LYON, T. L. + RITCHIE, D. M.
TM 77-1273-13 SEPTEMBER 18, 1977 THIS PAPER GIVES DETAILS OF PROBLEMS ENCOUNTERED IN PORTING PROGRAMS, GUIDELINES FOR WRITING OR REWRITING PROGRAMS TO BE PORTABLE, AND SOME STATISTICS ABOUT THE ADVANTAGES AND DISADVANTAGES OF PORTABLE PROGRAMMING. SEE ALSO UNPL(1204)
- UNPL1204 C LANGUAGE PORTABILITY
TAGUE, B. A. + HAIGHT, R. C.
SEPTEMBER 22, 1977 THIS PAPER CONSISTS OF 3 ATTACHMENTS (I) LIBRARY ROUTINES, (II) A STYLE SHEET FOR C PROGRAMMING, ISSUE 1 UNPL(1143) AND (III) INTER-UNIX PORTABILITY UNPL(1203).
- UNPL1206 AWK - A PATTERN SCANNING AND PROCESSING LANGUAGE (SECOND EDIT)
AHO, A. V. + KERNIGHAN, B. W. + WEINBERGER, P. J.
TM 76-1271-12, TM 76-1273-6 SEPTEMBER 1, 1976 AWK IS A PROGRAMMING LANGUAGE DESIGNED TO SOLVE SOME COMMON INFORMATION RETRIEVAL PROBLEMS. THIS MEMORANDUM SUPERSEDES TM 77-1271-6 DATED SEPTEMBER 6, 1977.
- UNPL1207 THE C LANGUAGE CALLING SEQUENCE
JOHNSON, S. C. + RITCHIE, D. M. + LESK, M. E.
TM 77-1273-15, TM 77-1274-13 SEPTEMBER 26, 1977 THIS DOCUMENT ATTEMPTS TO SET FORTH THE MAJOR ISSUES, AND DISCUSSES EXPERIENCE WITH THE POP-11, GCOS, AND IBM C ENVIRONMENTS. AN APPENDIX DISCUSSES THE CALLING SEQUENCE FOR THE INTERDATA 8/32 C COMPILER.
- UNPL1208 CHARACTER STRING MANIPULATION IN THE C LANGUAGE
CARR, R. G.
OCTOBER 31, 1977 S161-771031.01EN THIS DOCUMENT DESCRIBES THE C LANGUAGE FEATURES AND THE AVAILABLE SUBROUTINES. IT IS INTENDED TO COMPLEMENT THE C TUTORIAL UNPL(1001) WITH EMPHASIS ON STRINGS.
- UNPL1211 STRING MANIPULATION AND CONVERSION LIBRARY FOR SWITCHING CONTROL CENTER
HOALST, B. C.
TM 77-5222-2 OCTOBER 20, 1977 THIS LIBRARY PROVIDES A NUMBER OF BASIC MECHANISMS FOR IMPLEMENTATION OF COMPLEX STRING FORMATTING TASKS FROM C PROGRAMS.

"UNPL - PROGRAMMING LANGUAGES"

- UNPL1220 MICA - A GENERAL PURPOSE MICROASSEMBLER: FUNCTIONAL SPECIFICATION/USER'S MANUAL - ISSUE II
NG, S. W.
TM 77-8514-2 NOVEMBER 15, 1977 MICA IS A UNIX BASED PROGRAM WRITTEN IN C. IT COMBINES THE SALIENT
FEATURES OF SEVERAL COMMERCIALY AVAILABLE MICROASSEMBLERS SUCH AS AMDASM AND RAPID, AND ALSO
PROVIDES FEATURES NOT AVAILABLE ELSEWHERE.
- UNPL1221 MAC-8 ASSEMBLY LANGUAGE PROGRAMMING MANUAL
ANGELO, J.
DECEMBER 8, 1977 PART 1 OF THIS MANUAL GIVES AN INTRODUCTION TO PROGRAMMING MAC-8 IN ASSEMBLY
LANGUAGE. PART 2 IS WRITTEN FOR PEOPLE WHO HAVE REACHED THE INTERMEDIATE ABILITY TO PROGRAM
MICROPROCESSORS.
- UNPL1225 ASSEMBLER FOR THE DEC KMC11 MICROPROCESSOR
WEHR, L. A.
TM 77-8234-22 NOVEMBER 15, 1977 THIS DOCUMENT IS A REFERENCE MANUAL FOR AN ASSEMBLER FOR THE DEC
KMC11 MICROPROCESSOR. IT DESCRIBES THE USAGE, INPUT SYNTAX, AND OUTPUT FORMAT O
- UNPL1228 EXTENDED SHELL - A POTENTIAL REAL TIME INTERPRETER
KOLETTIS, N. J.
TM 77-4145-01 OCTOBER 25, 1977 THE EXTENDED SHELL HAS THE POTENTIAL OF A GENUINE REAL TIME
INTERPRETER THAT CAN BE USED TO FASHION SHELL PROCEDURES IN REAL TIME ENVIRONMENTS WHI ESSENTIALLY AS
FAST AS C PROGRAMS AND ARE VERY SIMPLE TO WRITE AND MAINTAI
- UNPL1229 GUIDELINES FOR C COMPILER DISTRIBUTION
OLSSON, S. B.
TM 78-8234-2 JANUARY 3, 1978 THIS MEMORANDUM OUTLINES A SET OF PROCEDURES FOR C COMPILER
DISTRIBUTION THAT HAS BEEN DEVELOPED IN ORDER TO MINIMIZE DISTRIBUTION, INSTALLATION AND TRANSITION
PROBLEMS.
- UNPL1237 A C COMPILER FOR THE SEL COMPUTER
REMDE, J. R.
TM 78-1226-1 JANUARY 13, 1978 THIS MEMORANDUM DESCRIBES THE IMPLEMENTATION PROCESS INCLUDING THE
CHANGES MADE TO THE PORTABLE COMPILER AND THE CONSTRUCTION OF THE SEL C LIBRARY. IT ALSO INCLUDES A
USER'S GUIDE, EXPLAINING THE USAGE AND FEATURES OF THE COMPILER.
- UNPL1239 AN INTRODUCTION TO THE UNIX SHELL
BOURNE, S. R.
NOVEMBER 12, 1978 THE SHELL IS A COMMAND PROGRAMMING LANGUAGE THAT PROVIDES AN INTERFACE TO UNIX
OPERATING SYSTEM. ITS FEATURES INCLUDE CONTROL FLOW PRIMITIVES, PARAMETER PASSING, VARIABLES AND
STRING SUBSTITUTION.
- UNPL1246 A PORTABLE FORTRAN 77 COMPILER
FELDMAN, S. I. - WEINBERGER, P. J.
AUGUST 1, 1978 THE FORTRAN LANGUAGE HAS JUST BEEN REVISED, AND A NEW STANDARD FOR THE LANGUAGE, KNOWN
AS --FORTRAN 77'. THIS PAPER DESCRIBES THE LANGUAGE COMPILED, INTERFACES BETWEEN PROCEDURES, AND
FILE FORMATS ASSUMED BY THE I/O SYSTEM. AN APPENDIX DESCRIBES THE FORTRAN 77 LANGUAGE.
- UNPL1249 A VERSION OF RATFOR FOR THE PDP-11'S RT-11 OPERATING SYSTEM
MAYBACH, R. L.
TM 78-4392-2 MAY 10, 1978 THIS MEMO DESCRIBES THE INPUT/OUTPUT ROUTINES AND THE RT-11 VERSION OF
RATFOR.
- UNPL1250 8080/Z80 ASSEMBLER REFERENCE MANUAL
VOGEL, G. C.
TM 78-8234-6 MARCH 21, 1978 THIS DOCUMENT IS THE REFERENCE MANUAL FOR AS80, AN ASSEMBLER FOR THE
INTEL 8080 AND ZILOG Z80 MICROPROCESSORS. IT DESCRIBES THE USAGE, INPUT SYNTAX AND OUTPUT FORMAT OF
AS80. THIS ASSEMBLER IS WRITTEN IN C AND RUNS UNDER THE UNIX OPERATING SYSTEM. THIS DOCUMENT
SUPERSEDES PREVIOUS AS80 DOCUMENTATION.
- UNPL1260 CMDND -- A ROUTINE TO HANDLE COMMAND LINE PARSING
UHLIR, S. A.
TM 78-3231-1 MAY 10, 1978 CMDND IS DESIGNED TO PROVIDE A UNIFORM METHOD FOR PARSING COMMAND LINES
FROM THE TERMINAL. IT FREES THE PROGRAMMER FROM THE PROBLEMS INVOLVED IN DEALING WITH COMMAND INPUT,
AND ALLOWS HIM TO CONCENTRATE ON THE APPLICATION.
- UNPL1267 A C LIBRARY PERFORMANCE PROBLEM
KOENIG, A.
MF 78-8234-61 JUNE 8, 1978 MOST OF THE COMMANDS IN UNIX ARE WRITTEN AS C PROGRAMS. MOST OF THESE
PROGRAMS, IN TURN, ARE BEING REWRITTEN TO USE RITCHIE'S INPUT-OUTPUT LIBRARY. ONE CHARACTERISTIC OF
THIS LIBRARY IS THAT IT DOES NOT NORMALLY BUFFER THE STANDARD OUTPUT OF A PROGRAM WHEN THAT FILE IS
DIRECTED TO A TERMINAL. WE SHOW THAT THIS CAUSES A SIGNIFICANT PERFORMANCE DEGRADATION AND POINT OUT
SOME WAYS TO ALLEVIATE THE PROBLEM.
- UNPL1268 VARIABLE LENGTH ARGUMENT LISTS IN C
KOENIG, A.
MF 78-8234-64 JUNE 12, 1978 A MAJOR PROBLEM WITH THE C LANGUAGE IS THAT PRINTF CANNOT BE WRITTEN IN
C. THIS IS BECAUSE DIFFERENT INVOCATIONS OF PRINTF MAY APPEAR WITH DIFFERENT NUMBERS OF ARGUMENTS,
AND THE SAME ARGUMENT POSITION MAY BE OCCUPIED BY ARGUMENTS OF DIFFERENT TYPES FROM ONE INVOCATION TO
ANOTHER. THIS PAPER DESCRIBES AN INTERFACE TO VARIABLE LENGTH ARGUMENT LISTS.
- UNPL1269 ON UNDERSTANDING THE SUPPORT OF THE PORTABLE C COMPILER
MARANZANO, J. F.
MF 78-8234-49 APRIL 26, 1978 IN ORDER TO UNDERSTAND HOW TO SUPPORT THE PORTABLE C COMPILER, IT IS
IMPORTANT TO KNOW THE FUNCTIONS OF THE VARIOUS PIECES AND THE PROCESS OF BUILDING A C COMPILER FOR
SOME MACHINE. THIS MEMORANDUM TRIES TO EXPLAIN THESE PIECES IN A HIGH LEVEL FUNCTIONAL WAY WITHOUT
GETTING INTO TOO MUCH DETAIL.
- UNPL1271 PARSE() - A C LANGUAGE ROUTINE TO PARSE A STRING INTO WORDS
FREEMAN, R. B.
PROGRAMMER'S NOTES JUNE 15, 1978 THESE NOTES DOCUMENT PARSE(), A C LANGUAGE ROUTINE THAT PARSES AN
INPUT STRING AND RETURNS THE WORDS AND THE NUMBER OF WORDS IN THE STRING.
- UNPL1323 CHANGES IN THE C ENVIRONMENT FOR UNIX/TS EDITION 1.0
KOENIG, A.
MF 78-8234-64 SEPTEMBER 27, 1978 THIS DOCUMENT DESCRIBES DIFFERENCES USERS MAY ENCOUNTER WHEN
CHANGING TO U FROM THE LAST RELEASE OF THE C COMPILER SHIPPED FOR GENERIC 3.

"UNPL - PROGRAMMING LANGUAGES"

- UNPL1348 SUPPORT FOR C ON IBM COMPUTERS
GRAMPP, F. T.
JANUARY 25, 1979
- UNPL1353 SEMANTICS OF THE C PROGRAMMING LANGUAGE, PART 0: PRELUDE
SETHI, R.
TM 79-1271-2 JANUARY 2, 1979 IN THIS PAPER, A VERY SIMPLE LANGUAGE WITH ASSIGNMENTS AND WHILE LOOPS ARE USED TO ILLUSTRATE THE SEMANTIC METHOD. SEE ALSO UNPL(1376) + UNPL(1427)
- UNPL1354 IMPLEMENTATION OF A PORTABLE FORTRAN 77 COMPILER USING MODERN
FELDMAN, S. I.
TM 79-1273-1 FEBRUARY 1, 1979 THIS PAPER DISCUSSES THE APPROACH TAKEN, THE WAYS IN WHICH THE TOOLS HAD TO BE BENT TO DO THE JOB, THE PROPERTIES OF FORTRAN THAT SEEM TO CAUSE THE MOST TROUBLE, AND THE COST OF WRITING A PORTABLE COMPILER.
- UNPL1356 INDIAN HILL C STYLE AND CODING STANDARDS
AL, L. W. CANNON, ET
TM 78-5512-1, TM 78-5514-1, TM 78-5522-3, TM 78-5326-1, TM 78-5521-3 MARC THIS DOCUMENT IS A RESULT OF A COMMITTEE FORMED AT INDIAN HILL TO ESTABLISH SET OF CODING STANDARDS AND RECOMMENDATIONS FOR THE INDIAN HILL COMMUNITY.
- UNPL1378 SEMANTICS OF THE C PROGRAMMING LANGUAGE, PART 1: STATEMENTS
SETHI, R.
TM 79-1271-4 FEBRUARY 2, 1979 THIS IS ONE OF A SERIES OF PAPERS DEFINING THE SEMANTICS OF THE C PROGRAMMING LANGUAGE. IT PROVIDES A BRIEF INTRODUCTION TO THE SEMANTIC METHOD, AND SEM STATEMENTS ARE GIVEN. SEE ALSO UNPL(1353) + UNPL(1427)
- UNPL1377 AN INTERACTIVE INTERFACE FOR C LANGUAGE PROGRAMS
RADNIK, M. K.
TM 79-8224-2 MARCH 14, 1979 THIS MEMORANDUM DESCRIBES AND ILLUSTRATES HOW TO USE A SET OF C LANGUAGE I/O ROUTINES AND PARSING ROUTINES WHICH MAY SERVE DIVERSE PROGRAMMING SYST HAVING THE COMMON NEED FOR A SOPHISTICATED DIALOGUE OR USER INTERFACE.
- UNPL1384 MACROS FOR ANALYZING C PROGRAM ARGUMENTS
LIONS, J.
JUNE 28, 1979 THIS PAPER DESCRIBES TWO SETS OF MACROS FOR USE IN THE ANALYSIS OF THE ARG TO C PROGRAMS. THE ADVANTAGE OF THEIR USE SHOULD BE A CONSIDERABLE REDUCTI OF PROGRAMMER EFFORT AND IMPROVED COMPREHENSIBILITY OF PROGRAMS.
- UNPL1388 C LANGUAGE ROUTINES FOR MULTI-THREAD COMPUTATIONS
FRASER, A. G.
TM 79-1273-4 MAY 7, 1979 THIS MEMORANDUM DESCRIBES SUBROUTINES WHICH PROVIDE THE BASIC MECHANISMS NEEDED TO SUPPORT MULTIPLE TASKS WITHIN ONE C LANGUAGE PROGRAM.
- UNPL1408 A TOUR THROUGH THE UNIX C COMPILER
RITCHIE, D. M.
JANUARY 1979
- UNPL1409 A TOUR THROUGH THE PORTABLE C COMPILER
JOHNSON, S. C.
JANUARY 1979
- UNPL1410 THE PROGRAMMING LANGUAGE EPL
FELDMAN, S. I.
TM 79-1273-8 JUNE 4, 1979 THIS PAPER DESCRIBES EPL, A CLEAN, GENERAL PURPOSE COMPUTER LANGUAGE INTEN TO ENCOURAGE PORTABLE PROGRAMMING.
- UNPL1413 SOMP - A DEBUGGING AID FOR UNIX C PROGRAMMERS
GLASSER, A. L.
MF 79-3116-8 JUNE 28, 1979 THIS MEMORANDUM DESCRIBES A TOOL THAT PROVIDES THE UNIX C PROGRAMMER ACCESS TO STRUCTURE SYMBOLS WITH ADB.
- UNPL1426 CQ - A PROGRAM FOR TESTING C COMPILERS
GRAMPP, F. T.
TM 79-2524-3 MAY 14, 1979 CQ IS A C PROGRAM THAT PERFORMS A COARSE CHECK ON THE QUALITY OF A C COMPILER BY COMPARING THE BEHAVIOR OF THE COMPILER TO THAT WHICH IS ADVERTISED IN THE C REFERENCE MANUAL. THIS MEMORANDUM DESCRIBES CQ FROM A DESIGNER'S POINT OF VIEW.
- UNPL1427 SEMANTICS OF THE C PROGRAMMING LANGUAGE, PART 2: DECLARATIONS
SETHI, R.
TM 79-1271-6 MARCH 2, 1979 SEE ALSO UNPL(1353) + UNPL(1376)
- UNPL1430 THE SECOND PASS OF THE PORTABLE C COMPILER
LIONS, J.
JUNE 1979 THIS DOCUMENT ATTEMPTS A DETAILED EXAMINATION OF THE SOURCE CODE FOR THE SECOND PASS OF THE PORTABLE C COMPILER.
- UNPL1448 A GUIDE TO THE C LIBRARY FOR UNIX USERS
PEREZ, C. D.
AUGUST 18, 1979 THIS PAPER DESCRIBES SOME COMMONLY USED FUNCTIONS OF THE C LIBRARY.
- UNPL1452 USING A COMMAND LANGUAGE AS THE PRIMARY PROGRAMMING TOOL
DOLOTTA, T. A. + MASHEY, J. R.
TM 79-3624-2, TM 79-9322-1 AUGUST 15, 1979 IN THIS PAPER, A BRIEF DISCUSSION OF THE CAPABILITIES AND EVOLUTION OF THE SHELL IS FOLLOWED BY AN ANALYSIS OF PATTERNS OF SHELL USAGE BY PEOPLE WHO USE THE "PROGRAMMER'S WORKBENCH" VERSION OF THE UNIX SYSTEM IN A VARIETY OF WORK ENVIRONMENTS.
- UNPL1465 A COMPARISON OF THE PROGRAMMING LANGUAGES C AND PASCAL - PART ONE: LANGUAGE CONCEPTS
FEUER, A. R. + GEMANI, N. H.
TM 79-3782-7 SEPTEMBER 12, 1979 THIS IS THE FIRST OF TWO PAPERS COMPARING THE PROGRAMMING LANGUAGES C AND PASCAL. IT PROVIDES A BASIS ON WHICH TO MAKE A SELECTION BETWEEN C AND PASCAL FOR A PARTICULAR APPLICATION.

"UNPL - PROGRAMMING LANGUAGES"

- UNPL1467 CHANGES TO C AND THE PORTABLE C COMPILER - ISSUE 1
ROWLAND, B. R.
OCTOBER 2, 1979 THIS DOCUMENT IS THE FIRST IN WHAT WILL BECOME A SERIES OF NOTIFICATIONS TO IMPLEMENTORS OF A VERSION OF THE PORTABLE C COMPILER IN BELL LABORATORIES.
- UNPL1468 SE - A STRUCTURE EDITOR PROGRAM FOR ACCESSING C PROGRAM STRUCTURES
FARGO, P. A.
TM 79-5354-2 SEPTEMBER 17, 1979 THIS MEMORANDUM DESCRIBES A PROGRAM WHICH USES THE STANDARD UNIX EDITOR TO CREATE AND MODIFY C PROGRAM STRUCTURE DATA. THE STRUCTURE EDITOR (SE) PERFORMS VARIOUS DATA BASE MANAGEMENT FUNCTIONS ON A STRUCTURE FILE.
- UNPL1468 THOUGHTS ON DEBUGGING C PROGRAMS
KOENIG, A.
DECEMBER 6, 1979 SOME C PROGRAMS VIOLATE LANGUAGE RULES IN WAYS THAT CAN ONLY BE DETECTED DURING EXECUTION. THIS DOCUMENT GIVES EXAMPLES OF THESE ERRORS AND DISCUSSES DESIGN ALTERNATIVES FOR A C IMPLEMENTATION CAPABLE OF DETECTING THEM.
- UNPL1498 RECENT CHANGES TO C
ROWLAND, B. R.
TM 79-3621-2 OCTOBER 2, 1979 THIS MEMO DESCRIBES RECENT ENHANCEMENTS TO THE C LANGUAGE THAT ARE NOT CURRENTLY DOCUMENTED.
- UNPL1510 THE DESIGN OF A PORTABLE POST-COMPILE CODE IMPROVER FOR THE PORTABLE C COMPILER
POPLAWSKI, D. A.
TM 79-3621-1 OCTOBER 1, 1979 THIS MEMORANDUM DESCRIBES THE DESIGN PHILOSOPHY OF A PORTABLE POST-COMPILE CODE IMPROVER FOR USE PRIMARILY WITH THE PORTABLE C COMPILER (PCC).
- UNPL1512 SITE USERS GUIDE
HAWKINS, J. P.
TM 79-2425-4 OCTOBER 8, 1979 THIS MEMO DESCRIBES THE SYNTAX OF THE LANGUAGE, THE MODES OF OPERATION OF THE INTERPRETER, DESCRIBES USEFUL PROGRAMMING TECHNIQUES, AND SHOWS SEVERAL EXAMPLES.
- UNPL1530 DOC: A DIALECT OF THE PROGRAMMING LANGUAGE C
SHARMA, D. K.
TM 80-1359-2 FEBRUARY 14, 1980 THIS PAPER DESCRIBES THE PROGRAMMING LANGUAGE DOC, A DIALECT OF C. IT ALSO CONTAINS THE MANUAL PAGES FOR THE PREPROCESSOR, THE COMMAND TO COMPILE AND LINK DOC PROGRAMS, AND THE FILTER PROGRAM TO UNDERLINE DOC KEYWORDS.
- UNPL1531 A MACROASSEMBLER FOR AN ARRAY PROCESSOR
BURIC, M. R.
TM 80-1356-1 JANUARY 10, 1980 THIS REPORT DESCRIBES A HIGH LEVEL ASSEMBLY LANGUAGE FOR THE PROCESSOR, AND SERVES AS USER'S GUIDE FOR THE ASSEMBLER.
- UNPL1532 APARSE: AN ATTRIBUTED LL(1) COMPILER GENERATOR
MILTON, D. R.
TM 80-3641-2 JANUARY 18, 1980 A COMPLETE DESCRIPTION OF APARSE, A FLEXIBLE AND MODULAR SYSTEM FOR GENERATING ONE-PASS COMPILERS FROM ATTRIBUTED GRAMMAR SPECIFICATIONS.
- UNPL1533 CLASSES: AN ABSTRACT DATA TYPE FACILITY FOR THE C LANGUAGE
STROUSTRUP, B.
TM 80-1273-2 JANUARY 19, 1980 LANGUAGE CONSTRUCTS FOR DEFINITION AND USE OF ABSTRACT DATA TYPES EASE THE DESIGN AND MAINTENANCE OF LARGE PROGRAMS. THIS PAPER DESCRIBES THE C CLASS CONCEPT, AN EXTENSION TO THE C LANGUAGE PROVIDING SUCH CONSTRUCTS.
- UNPL1537 A COMPARISON OF THE PROGRAMMING LANGUAGES C AND PASCAL - PART TWO: PROGRAM PROPERTIES AND PROGRAMMING DOMAINS
GEMANI, N. H. + FEUER, A. R.
TM 80-3633-1 FEBRUARY 15, 1980 THIS IS THE SECOND OF TWO PAPERS COMPARING THE PROGRAMMING LANGUAGES C AND PASCAL. THE FIRST PAPER COMPARED THE TWO LANGUAGES ON THE BASIS OF LANGUAGE CONCEPTS. THIS PAPER DISCUSSES THE RAMIFICATIONS OF THE C AND PASCAL LANGUAGE CONCEPTS ON PROGRAM PROPERTIES AND THEIR SUITABILITY FOR VARIOUS PROGRAMMING DOMAINS. SEE ALSO UNPL(1465)
- UNPL1538 PDDP - A DEBUGGING AID
CRISTOFOR, E.
APRIL 1, 1980 THIS MEMORANDUM DESCRIBES THE PSEUDO DYNAMIC DEBUGGING PACKAGE (PDDP) THAT PROVIDES SELECTIVE TRACING AT RUN TIME.
- UNPL1543 BEAUTIFYING C CODE
CHERRY, L.
TM 80-1271-4 APRIL 15, 1980 THIS PAPER DISCUSSES COMMON LAYOUT CONVENTIONS FOR C CODE, DESIGN CRITERIA FOR THE BEAUTIFIER, AND HOW IT WORKS.
- UNPL1559 THE PRINTF FAMILY
KOENIG, ANDREW
TM 80-3644-2 APRIL 25, 1980 THIS MEMORANDUM IS A DESCRIPTION OF THE PRINTF, FPRINTF, AND SPRINTF FUNCTIONS IN THE C STANDARD LIBRARY.
- UNPL1560 A SET OF C CLASSES FOR CO-ROUTINE STYLE PROGRAMMING
STROUSTRUP, BJARNE
TM 80-1273-4 MAY 6, 1980 THIS MEMORANDUM DESCRIBES C CLASSES FOR A RANGE OF STYLES OF MULTIPROGRAMMING TECHNIQUES IN A SINGLE LANGUAGE, SINGLE ADDRESS-SPACE ENVIRONMENT.
- UNPL1566 "C" IMPORT/EXPORT USER'S GUIDE
KIRCHHOFF, L. W.
TM 80-3645-2 JUNE 9, 1980 THIS MEMORANDUM DESCRIBES AN EXTENSION TO THE C LANGUAGE, CALLED IMPORT/EX THAT FACILITATES THE SPECIFICATION AND MANAGEMENT OF THESE INTERFACES.
- UNPL1584 DMAN: A DATA MANIPULATION LANGUAGE
CYKIERT, H. M. + WILL, M.
TM 80-9251-3 AUGUST 26, 1980 DESCRIBES DMAN, A DATA MANIPULATION LANGUAGE DESIGNED TO EXTRACT AND MODIFY DATA IN ARBITRARILY ORGANIZED UNIX FILES.
- UNPL1569 GENERAL-PURPOSE, REAL-TIME TEST SOFTWARE PACKAGE
AAGESEN, JOHN
TM 80-4583-3 SEPTEMBER 26, 1980 THIS MEMORANDUM DISCUSSES A SUPERVISORY COMMAND LANGUAGE, SCOAL, WHICH SERVES AS A VEHICLE FOR TESTING.

"UNPL - PROGRAMMING LANGUAGES"

- UNPL1589 A C PROFILER FOR TEST CASE VERIFICATION
LESH, MICHAEL
TM 80-1274-8 SEPTEMBER 25, 1980 THIS MEMORANDUM DESCRIBES THE COMMANDS VCC AND VCP WHICH DO C STATEMENT PROFILING BY INSERTING EXTRA STATEMENTS TO KEEP TRACK OF EXECUTION FLOW.
- UNPL1624 A CHARACTER STRING SWITCH STATEMENT FOR THE C LANGUAGE
BIANCHI, M. H.
TM 80-9322-3 NOVEMBER 5, 1980 SWITCH IS A MODEST, BUT EFFECTIVE, IMPLEMENTATION OF A CASE-CONSTRUCT FOR CHARACTER STRINGS IN C.
- UNPL1625 UNIX ASSEMBLER REFERENCE MANUAL FOR THE VAX 11/780
FRASER, C. M.
THIS DOCUMENT DESCRIBES THE USAGE AND INPUT SYNTAX OF THE UNIX VAX-11 ASSEMBLER AS.
- UNPL1655 EXTENSIONS OF THE C LANGUAGE TYPE CONCEPT
STROUSTRUP, B.
TM 81-11273-1 JANUARY 5, 1981 THIS MEMO DESCRIBES EXTENSIONS ADDED TO IMPROVE THE TYPE CHECKING OF MULTI-SOURCE-FILE C PROGRAMS, AND TO ALLOW A MORE PRECISE STATEMENT OF THE STRUCTURE OF THE PROGRAM.
- UNPL1656 ARGFOPEN: A FUNCTION FOR HANDLING FILE ARGUMENTS
BIANCHI, M. H.
TM 81-59322-1 FEBRUARY 2, 1981 ARGFOPEN PROVIDES A METHOD OF HANDLING FILE ARGUMENTS IN UNIX COMMANDS CONSISTENT WITH THE MOST COMMON USAGE.
- UNPL1677 THE PICS EXECUTION ENVIRONMENT SHELL
CARFAGNO, J. A.
TM 81-59332-1 JANUARY 22, 1981 THIS MEMO DESCRIBES THE FEW DIFFERENCES BETWEEN THE UNIX SHELL AND THE SHELL AVAILABLE IN THE EXECUTION ENVIRONMENT, REFERRED TO AS THE PEE SHELL.
- UNPL1678 MICROCODING THE VAX 11/780 USER-WRITABLE CONTROL STORE
HARDIN, R. H.
TM 81-59473-2 MARCH 6, 1981 THIS MEMORANDUM DESCRIBES BOTH THE MATERIAL AND MORAL ASPECTS OF MICROCODING, ADDING SOME CRITICAL SPECULATIONS ABOUT PRINCIPLES OF GOOD PROGRAMMING THAT ARE SUGGESTED BY MICROCODE.
- UNPL1679 PARSER: AN EXTENSIBLE, SELF DOCUMENTING, HIGHLY INTERACTIVE, MENU- AND SHELL-LIKE INTERFACE FOR NOVICE AND EXPERT USERS
BLEVETT, C. O. + RADER, G. M.
TM 81-43242-3, TM 81-43243-2 MARCH 18, 1981 THIS PAPER PRESENTS A PROGRAM CALLED THE PARSER WHICH CAN BE USED AS THE PRIMARY USER INTERFACE TO A GENERAL DATA PROCESSING FACILITY.
- UNPL1680 A SET OF LIST HANDLING ROUTINES FOR C PROGRAMS
CRISTOFOR, E.
TM 81-43174-1 MARCH 24, 1981 THE ROUTINES DESCRIBED IN THIS PAPER PROVIDE A LIST HANDLING INTERFACE FOR THE C-PROGRAMMER, THUS ALLOWING LIST OPERATIONS TO BE PERFORMED IN A CONSISTENT MANNER. THIS PAPER ALSO DESCRIBES HOW THESE ROUTINES CAN BE USED AS BUILDING BLOCKS TO WRITE HIGHER LEVEL ROUTINES.
- UNPL1681 BRAVISH: A MULTI-TASKING FACILITY FOR THE C-LANGUAGE
W. L. BAIN, JR.
THIS MEMORANDUM PRESENTS A MULTI-TASKING FACILITY FOR THE C LANGUAGE CALLED BRAVISH.
- UNPL1683 CREATING C TYPES
OSTBY, E. F.
TM 81-43491-1 JANUARY 28, 1981 THIS PAPER DESCRIBES A PROGRAM THAT WILL CREATE THE PROPER C TYPE DECLARATION, GIVEN A VERBAL DESCRIPTION OF THE IDENTIFIER TO BE PRODUCED. IT ALSO DESCRIBES A PROGRAM WHICH DOES THE INVERSE: GIVEN A C TYPE DECLARATION, THIS PROGRAM WILL PRODUCE A STATEMENT IN ENGLISH DESCRIBING THE VARIABLE.
- UNPL1719 CROSS ASSEMBLER DESIGN ON UNIX (COMMON FUNCTIONS)
MULROONEY, T. J.
TM 81-52211-6 JUNE 19, 1981 THIS REPORT IS ONE OF TWO THAT DESCRIBE THE INTERNAL DETAILS OF A SET OF CROSS ASSEMBLERS ON UNIX. SEE ALSO UNPL(1720)
- UNPL1720 CROSS ASSEMBLER DESIGN ON UNIX (UNIQUE FUNCTIONS)
MULROONEY, T. J.
TM 81-52211-5 JUNE 19, 1981 THIS REPORT IS THE SECOND PART OF A TWO PART DESCRIPTION OF THE INTERNAL DETAILS OF THE SET OF CROSS ASSEMBLERS EXISTING ON UNIX. SEE ALSO UNPL(1719)
- UNPL1721 INTRODUCTION TO THE PRINTF FAMILY
KOENIG, A.
TM 81-11274-6 JULY 10, 1981 THIS MEMORANDUM IS A TUTORIAL DESCRIPTION OF THE PRINTF, FPRINTF, AND SPRINTF FUNCTIONS IN THE C STANDARD LIBRARY. IT ASSUMES SOME FAMILIARITY WITH THE C LANGUAGE. SEE ALSO UNPL(1722)
- UNPL1722 SPECIFICATIONS FOR THE PRINTF FAMILY
KOENIG, A.
TM 81-11274-7 JULY 20, 1981 THIS MEMORANDUM CONTAINS FORMAL SPECIFICATIONS OF THE PRINTF, FPRINTF, AND SPRINTF FUNCTIONS IN THE C STANDARD LIBRARY, AND THE C SOURCE TEXT OF A WELL DEBUGGED, PORTABLE IMPLEMENTATION. THIS DOCUMENT ASSUMES A THOROUGH KNOWLEDGE OF THE C LANGUAGE AND SOME PREVIOUS EXPERIENCE IN DEALING WITH FORMAL SPECIFICATIONS OF PROGRAMMING LANGUAGES. SEE ALSO UNPL(1721)
- UNPL1723 SANLANG - A LANGUAGE FOR CHECKING DATA CONSISTENCY
KORN, D. G. + ZERINGUE, C. J.
TM 81-59234-2 JULY 1, 1981 THIS MEMO DESCRIBES SANLANG, A DATA VALIDATION LANGUAGE.
- UNPL1724 AS85/ASZ80 - S085/Z80 CROSS ASSEMBLER
MULROONEY, T. J.
TM 81-52211-7 JUNE 19, 1981 THIS REPORT DESCRIBES THE OPERATION OF TWO CROSS ASSEMBLERS ON UNIX FOR THE INTEL 8085 AND ZILOG Z80 MICROPROCESSORS. THE USAGE, ADVANTAGES, AND DISADVANTAGES OF AS85 ARE DESCRIBED ALONG WITH PROGRAMMING EXAMPLES FOR BOTH CROSS ASSEMBLERS.

"UNPL - PROGRAMMING LANGUAGES"

UNPL1728

RELATIONAL QUERIES ON HIERARCHICAL DATA - AN EXPERIMENT
GANSNER, E. + MORGAN, J. R. - KINTALA, C. M. R. + MOORE, D. J. + SURKO, P.
TM 81-59545-2 JUNE 8, 1981 THIS PAPER GIVES AN OVERVIEW OF HISEL, AN EXPERIMENT IN HIGH-LEVEL,
NAVIGATION-FREE QUERY LANGUAGES FOR NAVIGATIONAL DATA BASES. HISEL IS A RELATIONAL QUERY LANGUAGE FOR
THE HIERARCHICAL DATA BASE SYSTEM HI.

UNPL1730

HISEL USER'S GUIDE
MORGAN, E. GANSNER J. R. + KINTALA, C. M. R. + MOORE, D. J. + SURKO, P.
TM 81-59545-7 AUGUST 10, 1981 THIS MEMORANDUM DESCRIBES HOW TO USE HISEL, A RELATIONAL,
NAVIGATION-FREE QUERY LANGUAGE FOR THE HIERARCHICAL DATABASE SYSTEM HI ON UNIX. A SIMPLE TUTORIAL
INTRODUCTION IS GIVEN, FOLLOWED BY A COMPLETE DESCRIPTIO THE HISEL LANGUAGE QUERY FEATURES, UPDATE
CAPABILITIES, AND INPUT-OUTPUT F AN EXTENDED-BNF DESCRIPTION OF THE LANGUAGE IS ALSO GIVEN.

"UNPM - UNIX USER'S MANUALS"

- UNPM1021 UNIX REFERENCE CARD - SECOND EDITION
CHERRY, L. L.
MARCH 1979 A HANDY GUIDE TO UNIX COMMANDS AND SYNTAX.
- UNPM1073 UNIX PROGRAMMING - SECOND EDITION
KERNIGHAN, B. W. - RITCHIE, D. M.
OCTOBER 26, 1979 THIS PAPER IS AN INTRODUCTION TO PROGRAMMING ON UNIX. THE EMPHASIS IS ON HOW TO WRITE PROGRAMS THAT INTERFACE TO THE OPERATING SYSTEM.
- UNPM1107 PROGRAMMER'S WORKBENCH PAPERS FROM THE SECOND INTERNATIONAL CONFERENCE ON SOFTWARE ENGINEERING.
(G.4)
, T. A. DOLOTTA, ET AL.
FOR COMPLETE INFORMATION, SEE UNED (G.4)
- UNPM1110 INSTRUCTIONS FOR GRAPH, TEK, TEKSTARE AND GSIP GRAPHICS PACKAGES.
STORM, A. R.
TM 76-1527-35 JUNE 30, 1976
- UNPM1178 QUEST ADMINISTRATION HANDBOOK
ALBRECHT, E. H.
AUGUST 24, 1977 5161-770824.02 THE PURPOSE OF THIS MEMORANDUM IS TO PROVIDE THE BACKGROUND INFORMATION NEEDED TO ADMINISTER THE QUEST SYSTEM.
- UNPM1224 8080 SIMULATOR (ISOSIM) USER MANUAL
HOFMANN, S. S.
TM 77-2265-8 NOVEMBER 1, 1977 THIS MEMORANDUM TAKES THE USER THRU ALL COMMANDS AND FEATURES OF ISOSIM, AND PROVIDES A SUMMARY AT THE END.
- UNPM1402 UNIX/32V TIME-SHARING SYSTEM: UNIX PROGRAMMER'S MANUAL, VERSION 1.0, VOLUME 1
LABORATORIES, BELL
FEBRUARY 1979 CONTAINS DESCRIPTIONS OF THE USE OF ALL COMMANDS AND CALLS OF THE UNIX/32V SYSTEM.
- UNPM1440 UNIX/TS USER-S MANUAL - EDITION 1.1
3624, DEPARTMENT
JANUARY 1979 THIS MANUAL DESCRIBES THE FEATURES OF UNIX/TS.

"UNPMGS"

UNPM1088

UNIX PROGRAMMER'S MANUAL - PG-1C300 ISSUE 3
LABORATORIES, BELL
PUBLISHED BY THE UNIX SUPPORT GROUP (USG) FEBRUARY, 1977 CONTAINS DESCRIPTIONS OF THE USE OF ALL
COMMANDS AND SYSTEM CALLS.

"UNPM1070"

UNPM1070

UNIX/RT USER'S MANUAL - RELEASE 1
LABORATORIES, BELL
MARCH 1979 THIS MANUAL DESCRIBES THE FEATURES OF UNIX/TS AND UNIX/RT. UNIX/RT SUPERSEDES WERT RELEASE
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"PWB/UNIX"

PWB/1407

PWB/UNIX USER'S MANUAL - RELEASE 2.0
3782, DEPARTMENT
JUNE 1979 DESCRIBES ALL COMMANDS, SUBROUTINES, AND SYSTEM CALLS OF THE PWB (PROGRAMMER'S WORKBENCH)
VERSION OF UNIX FROM DIVISION 37 (PV). MAINTENANCE FOR THIS DOCUMENT IS DISTRIBUTED BY THE COMPUTING
INFORMATION LIBRARIES USING SPECIFIC CODES FOR SPECIFIC MACHINES.

"UNPMRS"

- UNPM1014- UNIX PROGRAMMER'S MANUAL - SIXTH EDITION
THOMPSON, K. - RITCHIE, D. M.
MAY, 1975 CONTAINS DESCRIPTIONS OF THE USE OF ALL COMMANDS AND CALLS ON THE "--RESEARCH" VERSION OF UNIX.
- UNPM1400 UNIX PROGRAMMER'S MANUAL - SEVENTH EDITION, VOLUME 1
LABORATORIES, BELL
JANUARY 1979 CONTAINS DESCRIPTIONS OF THE USE OF ALL COMMANDS AND CALLS ON THE "RESEARC VERSION OF UNIX.
- UNPM1401 UNIX PROGRAMMER'S MANUAL - SEVENTH EDITION, VOLUMES 2A & 2B
LABORATORIES, BELL
JANUARY 1979 CONTAINS DOCUMENTS FOR USE WITH THE SEVENTH EDITION OF THE "RESEARCH" VERSION OF UNIX.

"UNSA - SPECIAL APPLICATIONS"

- UNSA1222 CF - A GRAPHICAL DATA ANALYSIS PROGRAM
ROBBINS, M. F.
TM 79-1131-59 NOVEMBER 12, 1979 CF IS A GENERAL PURPOSE GRAPHICAL DATA ANALYSIS PROGRAM TO BE USED WITH A TEKTRONIX 4014 TERMINAL. CF HAS BEEN REVISED AND EXPANDED AND THIS MEMORANDUM REPLACES TM 77-1131-44.
- UNSA1283 COMPUTER ASSISTED COMMUNICATION SYSTEM
DORRIS, H. N. + HAGELBARGER, D. W. + SHANNON, M. J.
TM 78-1356-7, TM 78-1352-7 MAY 1, 1978 THIS MEMORANDUM DESCRIBES A CONTINUING SERIES OF EXPERIMENTS AIMED AT PROV IMPROVED COMMUNICATIONS FOR NON-VOCAL, MOTION-IMPAIRED PEOPLE.
- UNSA1311 ACS LEAP USER'S GUIDE
MARIONE, J. P.
TM 78-3112-3 SEPTEMBER 25, 1978 THIS IS A MODIFIED VERSION OF LEAP WHICH WILL BE USED TO SYSTEM TEST THE ADVANCED COMMUNICATION SERVICE.
- UNSA1313 BASIC-16 PROSPECTUS
SCUSSEL, C.
TM 78-2522-1 OCTOBER 6, 1978 BASIC-16 IS A C LANGUAGE SOFTWARE DEVELOPMENT SYSTEM (SDS) BEING DEVELOPED BY LABORATORY 252 FOR 16-BIT MICROPROCESSORS IN CONTROLLER APPLICATIONS.
- UNSA1315 APPLICATION PLANNING GUIDE, RELEASE 0 OF BASIC-16
ARNOLD, J.
TM 78-2522-2 NOVEMBER 15, 1978 THIS PAPER DESCRIBES BASIC-16'S HARDWARE AND SOFTWARE REQUIREMENTS.
- UNSA1318 PRELIMINARY REPORT ON RCMAS AND MERT PERFORMANCE PROBLEMS
HEDRICK, E. L. + RALEIGH, T. M.
OCTOBER 10, 1978 THIS MEMORANDUM SUMMARIZES THE PERFORMANCE AND RELIABILITY PROBLEMS THAT THE RECENT CHANGE MEMORY ADMINISTRATION SYSTEM EXPERIENCED AT THEIR CHICAGO FIELD SITE.
- UNSA1322 FUNCTIONAL OPERATION OF THE RECENT CHANGE MEMORY ADMINISTRATI
KORN, D. G. + PILLA, M. A. + SCRIBNER, N. M. + STUCK, B. W.
FEBRUARY 1, 1979 THIS MEMO DESCRIBES THE HARDWARE AND SOFTWARE ARCHITECTURE, AS WELL AS THE DATA AND CONTROL FLOW ASSOCIATED WITH PROCESSING RECENT CHANGE ORDER TRANS THE RECENT CHANGE MEMORY ADMINISTRATION SYSTEM (RCMAS) AS 1 AUGUST 1978.
- UNSA1324 MODIFICATIONS TO THE TROUBLE REPORTING SYSTEM
DEAN, J.
MF 78-8234-77 AUGUST 30, 1978 THIS DOCUMENT DESCRIBES THE USAGE AND THE INTERNAL STRUCTURE OF THE NEW SYSTEM FOR TROUBLE REPORTING. SEE ALSO UNSA(1326)
- UNSA1326 NEW TROUBLE REPORTING PROCEDURES
MARANZANO, J. F.
NOVEMBER 2, 1978 THIS PAPER DESCRIBES SEVERAL CHANGES WHICH HAVE BEEN MADE TO THE TROUBLE R SEE ALSO UNSA(1324)
- UNSA1333 A TRAFFIC GENERATING SYSTEM
ARNOLD, S. L. + REDMAN, B. E.
TM 78-4533-1 DECEMBER 29, 1978 THE TRAFFIC GENERATING SYSTEM (TGS) PROVIDES THE ENVIRONMENT FOR MULTIPLE SIMULATION TESTING OF SLC-98. USERS MAY SPECIFY AS MANY INDEPENDENT SIMULA REAL TIME AND MEMORY PERMIT.
- UNSA1341 AN INTELLIGENT FAST COLOR DISPLAY
WESTE, N.
TM 78-1354-15 DECEMBER 25, 1978 A COLOR DISPLAY HAS BEEN BUILT PRIMARILY FOR USE IN AN INTEGRATED CIRCUIT ENVIRONMENT. THIS PAPER DOCUMENTS THE HARDWARE AND PROGRESS TO DATE.
- UNSA1342 A SOFTWARE ARCHITECTURE FOR PROVIDING A GRAPHICS SYSTEM DEVELOPMENT WORKBENCH
SCHUYLER, S. T. + CHODROW, M. M.
TM 78-8254-5 DECEMBER 1, 1978 THE PURPOSE OF THIS DOCUMENT IS TO DESCRIBE THE SOFTWARE ARCHITECTURE OF THE UNIGRAPHIX SYSTEM, AND TO DISCUSS THE APPROPRIATENESS OF THIS ARCHITECTURE FOR A RANGE OF INTERACTIVE GRAPHICS APPLICATIONS.
- UNSA1344 REDAS - A RELATIONAL DATA ACCESS SYSTEM FOR REAL-TIME APPLICA
MCKIMIN, J. R.
TM 78-8221-1 OCTOBER 9, 1978 REDAS IS A DATA RETRIEVAL SOFTWARE PACKAGE DESIGNED TO PROVIDE CONVENIENT TO A DATABASE CONTAINING REAL-TIME AS WELL AS MORE STATIC TYPES OF DATA.
- UNSA1350 A MICRO-DBMS FOR A DISTRIBUTED DATA BASE
TING, P. D. + TSICHRITZIS, D. C.
TM 79-1712-2 JANUARY 29, 1979 THIS MEMORANDUM CONTAINS THE TEXT, SLIGHTLY REVISED AND UPDATED, OF A PAPER PUBLISHED IN THE PROCEEDINGS OF THE FOURTH INTERNATIONAL CONFERENCE ON VERY LARGE DATA BASES, WEST BERLIN, GERMANY, SEPTEMBER 13-15, 1978.
- UNSA1355 REAL TIME LISTING RETRIEVAL (RTLPR)/AUDIO RESPONSE UNIT (ARU) PROTOTYPE SYSTEM - PERFORMANCE MEASUREMENTS
HOOKER, J. W.
TM 79-9156-2 FEBRUARY 10, 1979 THIS PAPER DESCRIBES THE MECHANIZED DRIVER CAPABILITY AND THE METHODS USED TO OBTAIN THE MEASUREMENTS, WHICH INCLUDE CPU AND DISC UTILIZATION, SERVICE TIME, AND OVERALL RESPONSE TIME.
- UNSA1357 A GENERAL PURPOSE ASSEMBLER
THOMPSON, J. S.
TM 79-1365-1 JANUARY 12, 1979 THIS PAPER DESCRIBES A GENERAL PURPOSE ASSEMBLER WHICH HAS BEEN WRITTEN TO A SYMBOLIC PROGRAMMING FACILITY FOR CUSTOM BUILT PROGRAMMABLE AND MICROPRO HARDWARE.
- UNSA1362 A CAPACITY STUDY FOR THE SERVICE EVALUATION CENTER - A UNIX-BASED REAL-TIME SYSTEM
CHANG, S-J.
TM 79-8223-1 FEBRUARY 9, 1979 THIS MEMORANDUM PRESENTS A REPORT ON THE CAPACITY STUDY FOR THE SERVICE EVALUATION CENTER (SEC) WHICH IS A UNIX-BASED REAL-TIME SYSTEM.
- UNSA1366 CRAFT ACCESS SYSTEM SOFTWARE STANDARDS
EVENSON, E. K. + FILDES, N. R.
TM 79-4563-1 MARCH 8, 1979 THIS MEMORANDUM CONTAINS THE PROGRAMMING STANDARDS FOR THE CRAFT ACCESS PR

"UNSA - SPECIAL APPLICATIONS"

- UNSA1373 PORTING THE ADAPT DATA TRANSLATION SYSTEM TO THE IBM 370
BACH, M. J. + SMITH, S. L.
TM 79-9157-1 MARCH 8, 1979 THE ADAPT DATA TRANSLATION SYSTEM IS A HIGH-LEVEL USER-FRIENDLY SYSTEM INTENDED TO MEET MOST FILE RE-STRUCTURING REQUIREMENTS, INCLUDING THOSE INVOLVING TRANSFERS TO DIFFERENT MACHINE CONFIGURATIONS. THIS PAPER DESCRIBES THE PORTING OF THE ADAPT SYSTEM TO THE IBM 370/168 CO
- UNSA1374 A DATA-BASE MANAGEMENT SYSTEM UNDER MERT
TING, A. C.
TM 79-4148-2 APRIL 4, 1979 THIS PAPER DESCRIBES THE FEATURES OF RCDBMS(RECENT CHANGE MEMORY DATA BASE MANAGEMENT SYSTEM), A REAL-TIME DATABASE MANAGEMENT SYSTEM WRITTEN IN C UNDER MERT.
- UNSA1378 IMPLEMENTATION OF A BOOLEAN DATA ANALYSIS TECHNIQUE FOR PWB/U
SONANNI, L. S.
TM 79-8441-5 MARCH 21, 1979 THIS MEMORANDUM PRESENTS THE SIMPLIFIED "POSSIBLY MEANINGFUL RELATIONSHIPS (PMR) TECHNIQUE AND SERVES AS A USER'S GUIDE TO ITS PWB/UNIX IMPLEMENTATION
- UNSA1381 THE USG UNIX STOCKROOM
ROSENTHAL, V. M.
APRIL 23, 1979 THE USG STOCKROOM IS A FACILITY ON THE USG UNIX/TS SYSTEM THAT ALLOWS BELL LABS UNIX USERS TO OBTAIN PROGRAMS FOR INSTALLATION ON THEIR SYSTEMS. THIS PAPER DESCRIBES THE ORGANIZATION OF THE STOCKROOM AND THE COMMANDS AVAILABLE TO STOCKROOM USERS.
- UNSA1383 AN INTEL COMPATIBLE 8048-49 CROSS ASSEMBLER
MULROONEY, T. J.
TM 79-2211-10 NOVEMBER 29, 1979 THIS REPORT DESCRIBES THE IMPLEMENTATION OF AN INTEL 8048-49 ASSEMBLER ON UNIX OPERATING SYSTEM. THE USAGE, ADVANTAGES, DISADVANTAGES, AND EXAMPLES
- UNSA1387 SYSTID ON F4P-UNIX - USER'S GUIDE
HASKELL, B. G. - YUE, O. C.
TM 79-1343-7 APRIL 4, 1979 A USER'S GUIDE FOR SYSTID, A SET OF PROGRAMS TO BE USED FOR SIMULATION AND TRANSIENT ANALYSIS OF LINEAR AND NON-LINEAR SYSTEMS.
- UNSA1390 HI - AN INTERACTIVE HIERARCHICAL DATA MANAGEMENT SYSTEM FOR U
KAYEL, R. G.
TM 79-3444-3 APRIL 30, 1979 THIS MEMORANDUM DESCRIBES A HIERARCHICAL DATA MANAGEMENT SYSTEM THAT RUNS UNDER THE UNIX OPERATING SYSTEM. IT IS DESIGNED TO BE USED FOR MANAGING A SMALL TO MODERATE SIZED HIERARCHICAL DATA BASE.
- UNSA1397 UNIX BASED TSPS HOTEL-MOTEL TRAFFIC SIMULATOR
MICHAEL, S.
TM 79-8252-1 MAY 18, 1979 THIS MEMORANDUM DESCRIBES A MESSAGE GENERATOR THAT SIMULATES THE MESSAGES TRANSMITTED FROM A TRAFFIC SERVICE POSITION SYSTEM (TSPS) TO THE NO. 1 HOTEL BILLING INFORMATION SYSTEM(HOBIS) FOR SENT-PAID CALLS ORIGINATING FROM A HOTEL OR MOTEL.
- UNSA1398 PWB/GRAPHICS OVERVIEW
FEUER, A. R.
TM 79-3782-1 JUNE 11, 1979 THIS MEMORANDUM WILL HELP YOU GET STARTED USING GRAPHICS AND SHOW YOU WHERE TO FIND MORE INFORMATION.
- UNSA1399 CONVERSION OF SICPPR FILES FROM UNIX TO RAMIS II
ELLINGTON, M. S.
TM 79-2174-1 MAY 21, 1979 THIS MEMORANDUM DOCUMENTS THE TRANSFER OF THE SILCON INTEGRATED CIRCUIT PROJECT PLANNING REPORT (SICPPR) DATA BASE FROM THE UNIX FILE STRUCTURE TO THE RAMIS II DATA BASE SYSTEM.
- UNSA1408 COMPUTER BUFFERED INFORMATION EXCHANGE USER'S GUIDE
STROM, S. I.
TM 79-5133-1 JUNE 11, 1979 THIS PAPER IS THE COMPLETE USER'S GUIDE TO THE COMPUTER BUFFERED INFORMATION EXCHANGE (CBIE) SYSTEM WHICH FACILITATES ASYNCHRONOUS COMMUNICATION AMONG A GROUP OF INDIVIDUALS.
- UNSA1412 DIRECT II IN-CORE TABLES: USER'S GUIDE
ROOME, W. D.
TM 79-9156-6 JUNE 7, 1979 THE DIRECT II IN-CORE TABLES (ITEL) PACKAGE ALLOWS USER PROCESSES TO QUICK SEARCH SMALL SUBSETS, OR CROSS-SECTIONS, OF TABLES IN THE DIRECT II TABLES BASE (TDB).
- UNSA1414 DIRECTORY ASSISTANCE OPERATOR WORK TIME EXPLORATORY DATA ANALYSIS
ARTHURS, E. + SHARKO, N. + STUCK, S. W.
JULY 6, 1979 THIS PAPER SUMMARIZES RECENT WORK IN CHARACTERIZING DIRECTORY ASSISTANCE OPERATOR WORK TIMES, WHICH IS A MAJOR COMPONENT OF THE TOTAL TIME REQUIRED HANDLE ONE TRANSACTION, FOR CURRENT DIRECTORY ASSISTANCE OPERATORS.
- UNSA1415 PRELIMINARY REAL TIME LISTING RETRIEVAL (RTL) FIELD STUDY PERFORMANCE ANALYSIS
ARTHURS, E. + CRAGUN, D. W. + STUCK, S. W.
JULY 9, 1979 THIS PAPER SUMMARIZES AN ANALYTIC STUDY PLUS SOME EXPERIMENTAL DATA FROM A FIELD STUDY CONCERNING PERFORMANCE LIMITATIONS OF A PROTOTYPE OF RTL.
- UNSA1418 THE CRAFT ACCESS VOICE EDITING SYSTEM (CAVES)
FILDES, N. R.
TM 79-9314-1 JUNE 20, 1979 THIS MEMORANDUM DESCRIBES THE VOICE EDITING SOFTWARE TOOLS USED TO DEVELOP AND MAINTAIN A COLLECTION OF FILES CONTAINING THE DIGITIZED SPEECH VOCABULARY.
- UNSA1419 THE NSPEAK PROGRAM
HARRIS, M. O.
TM 79-1227-18 JUNE 3, 1979
- UNSA1421 EXPERIMENTAL OFFICE COMMUNICATIONS SERVICES - MESSAGE SYSTEM
HOFFMAN, R. E.
JUNE 13, 1979 THIS MEMORANDUM DESCRIBES AN ONLINE EXPERIMENTAL OFFICE COMMUNICATION SYSTEM (OCS) MESSAGE SYSTEM THROUGH WHICH USERS CAN COMMUNICATE IN A DEFERRED MODE.

"UNSA - SPECIAL APPLICATIONS"

- UNSA1425 DIRECT II SERVICE DISPATCHER
CHANG, C. W. - LINDERMAN, J. P.
TM 79-9156-6 JUNE 12, 1979 A DIRECT II SERVICE DISPATCHER WAS DEVELOPED TO MANAGE A NUMBER OF SERVICE PROCESSES IN THE SYSTEM. THIS DOCUMENT SPECIFIES THE FUNCTIONAL CAPABILITIES OF THE SERVICE DISPATCHER AND THE COMMUNICATION CHANNELS BETWEEN IT AND THE CUSTOMER PROCESSES.
- UNSA1428 DOCUMENTATION OF MINICOMPUTER PRODUCT TRIALS
SWIFT, R. E.
APRIL 27, 1979 THIS MEMORANDUM DEFINES THE CONSTITUENTS OF A PRODUCT TRIAL REPORT AND THE MINIMUM INFORMATION WHICH THE REPORT MUST CONVEY.
- UNSA1433 AN INTERFACE BETWEEN A STAND ALONE OPERATING SYSTEM (ISIS) AND A TIME SHARED COMPUTER SYSTEM (UNIX)
MULROONEY, T. J.
TM 79-2211-4 MAY 15, 1979 AN INTERFACE BETWEEN A MICROCOMPUTER DEVELOPMENT SYSTEM (MDS) AND A TIME SHARED SYSTEM (UNIX) IS DESCRIBED IN DETAIL. A COMPLETE DESCRIPTION OF ALL OPERATING PROCEDURES, COMPLETE DOCUMENTATION PACKAGE FOR ALL PROGRAMS DISCUSSED, APPLICATIONS AND EXAMPLES OF USAGE ARE ALSO GIVEN.
- UNSA1438 UNITY - A SMALL DBMS FOR A UNIX ENVIRONMENT
TING, P. D.
TM 79-1712-12 SEPTEMBER 4, 1979 THIS MEMORANDUM DESCRIBES A DATA BASE MANAGEMENT SYSTEM CALLED UNITY, WHICH IS OPERATIONAL ON DEC'S PDP-11 MINICOMPUTERS AND LSI-11 MICROCOMPUTE
- UNSA1445 INTEL 8048 SIMULATOR (SIM48) USER MANUAL
MULROONEY, T. J.
TM 79-2211-7 AUGUST 15, 1979 THE 8048-8049 MICROPROCESSOR SIMULATOR RUNNING UNDER THE UNIX OPERATING SYSTEM, PROVIDES SOFTWARE SIMULATION OF THE 8048-8049 MICROCOMPUTER. THIS REPORT IS A DETAILED USER'S MANUAL DESCRIBING THE VARIOUS COMMANDS.
- UNSA1448 SPOOLER AND DAEMON SOFTWARE FOR A PRINTER NETWORK
LAUR, J. E.
TM 79-9457-3 JULY 27, 1979 PRINTER AND SPOOLER SOFTWARE TO HANDLE A SINGLE DATASPEED 40 PRINTER HAS BEEN TAKEN FROM THE MERT SUPPORT GROUP DEPT (3824) AND MODIFIED TO PROVIDE SUPPORT FOR A NETWORK OF PRINTERS OF ANY TYPE. THIS PAPER DESCRIBES SEVERAL FEATURES WHICH HAVE BEEN ADDED TO THE SOFTWARE TO MAKE MORE ROBUST.
- UNSA1453 IMPLEMENTING AND TESTING NEW VERSIONS OF A GOOD 48-BIT PSEUDO-RANDOM NUMBER GENERATOR
ROBERTS, C. S.
TM 79-1383-5 SEPTEMBER 4, 1979 THIS PAPER DESCRIBES THE DESIGN, IMPLEMENTATION, TESTING, AND USE OF DRAND48 - A GOOD PSEUDO-RANDOM NUMBER GENERATOR BASED ON THE LINEAR CONGRUENTIAL ALGORITHM AND 48-BIT INTEGER ARITHMETIC.
- UNSA1454 DIRECT II SORT UTILITIES
LINDERMAN, J. P.
TM 79-9456-2 AUGUST 31, 1979 THIS MEMORANDUM HAS FOUR MAIN PARTS. THE FIRST DESCRIBES HOW A LIST OF MULTI-VALUED FIELDS INDUCES AN ORDERING ON RECORDS. THE SECOND SECTION SPECIFIES AN ALGORITHM FOR CONSTRUCTING A SORT KEY GIVEN A RECORD AND A LIST FIELDS. THE THIRD SECTION DESCRIBES A GENERAL PURPOSE SORT UTILITY CAPABLE OF SORTING RECORDS INTO LEXICOGRAPHICAL ORDER ON A SINGLE KEY. A FINAL SECTION DESCRIBES A COLLECTION OF TOOLS WHICH CONSTITUTED THE DIRECT II SORT UTILITIES.
- UNSA1455 DIRECT II DATA REPRESENTATION AND MANIPULATION
LINDERMAN, J. P.
TM 79-9456-1 AUGUST 8, 1979 THIS MEMORANDUM DESCRIBES THE REPRESENTATION USED IN DIRECT II.
- UNSA1461 YADS - YET ANOTHER DATABASE SYSTEM
ROCHKIND, M. J.
TM 79-9323-1 OCTOBER 1, 1979 YADS IS YET ANOTHER DATABASE THAT STORES DATA, PROVIDES A WAY TO UPDATE IT, AND GENERATES REPORTS. THIS MEMO CONTAINS A TUTORIAL ON SETTING UP A YADS APPLICATION AND MANUAL PAGES FOR REFERENCE.
- UNSA1464 VERSION 3 OF THE GR-Z GRAPHICAL SYSTEM
BECKER, R. A.
TM 79-1215-12 SEPTEMBER 4, 1979 THIS MEMORANDUM DESCRIBES VERSION 3 OF THE GR-Z GRAPHICAL SYSTEM. IT ASSUMES FAMILIARITY WITH GR-Z VERSION 2, AND DESCRIBES THE CHANGES FROM VERSION 2 TO VERSION 3. IT ALSO PROVIDES DETAILS OF THE UNIX IMPLEMENTATION.
- UNSA1471 A GRAPHICS LANGUAGE FOR TYPESETTING
WYK, C. J. VAN + KERNICHAN, B. W.
TM 79-1274-10 SEPTEMBER 13, 1979 THIS PAPER REPORTS SOME STEPS TOWARD THE DESIGN OF A LANGUAGE IN WHICH A USEFUL CLASS OF FIGURES CAN BE EXPRESSED.
- UNSA1478 DEVELOPMENT OF A PROGRAM FOR PARTS INVENTORY CONTROL
GOPIN, A. M.
TM 79-3237-2 OCTOBER 19, 1979 A PROGRAM HAS BEEN DEVELOPED TO AID IN THE KEEPING OF INVENTORIES OF PARTS FOR PROTOTYPE MODEL PRODUCTION. THIS PROGRAM IS WRITTEN IN C AND RUNS UNDER UNIX.
- UNSA1469 A UNIX BASED SYSTEM FOR AUTOMATED TESTING OF ASYNCHRONOUS TERMINALS AND HOSTS
MUELLER, M. B.
TM 79-3182-1 SEPTEMBER 10, 1979 THE PATHOS (PROGRAMMABLE ASYNCHRONOUS TERMINAL AND HOST SIMULATOR) FACILITY HAS RECENTLY BEEN IMPLEMENTED TO SUPPORT AUTOMATED TESTING OF ASYNCHRONOUS TERMINALS AND HOSTS. AN OVERVIEW OF PATHOS CAPABILITIES AND ARCHITECTURE IS PRESENTED IN THIS PAPER.
- UNSA1498 TERSE - A TECHNIQUE FOR REPORTING ON SMALL DATA BASES
PETSCHENIK, N. H. + WOODALL, R. P.
TM 79-9252-1 AUGUST 31, 1979 THIS MEMORANDUM APPLIES TERSE TO A SPECIFIC DATA BASE EXAMPLE AND THEN THE TECHNIQUE IS PRESENTED IN GENERAL. COMPLETE USER INFORMATION IS PROVIDED AS WELL AS A DESCRIPTION OF THE IMPLEMENTATION.
- UNSA1502 DIRECT II DATA BASE INDICES
RUBINSTEIN, P. I. + HSU, T.
TM 79-9457-6 AUGUST 13, 1979 AN INDEXING SCHEME FOR A LARGE SCALE DATA BASE MUST BE EASY TO USE, FLEXIBLE, AND FAST. THE INDEXING SCHEME PROPOSED IN THIS PAPER OFFERS A VIABLE COMPROMISE OF THESE THREE FACTORS.

"UNSA - SPECIAL APPLICATIONS"

- UNSA1511 ADMS, AN ASSOCIATIVE DATABASE MANAGEMENT SYSTEM FOR UNIX
BEYER, J. D.
TM 79-3234-2 JULY 16, 1979 THIS MEMORANDUM PRESENTS AN OVERVIEW OF ADMS AND IS INTENDED FOR POTENTIAL USERS AND OTHERS INTERESTED IN DATABASE MANAGEMENT SYSTEMS.
- UNSA1520 THE PWB/UNIX ACCOUNTING SYSTEM
MCCREARY, M. S.
JANUARY 1980 THIS MEMORANDUM DESCRIBES THE STRUCTURE, IMPLEMENTATION, AND MANAGEMENT OF THIS ACCOUNTING SYSTEM.
- UNSA1521 ADMINISTRATIVE INFORMATION FOR PWB/GRAPHICS
CHEN, R. L. + PINKSTON, D. E.
JANUARY 1980 THIS DOCUMENT IS A REFERENCE GUIDE FOR SYSTEM ADMINISTRATORS WHO ARE USING OR ESTABLISHING A PWB/GRAPHICS FACILITY ON UNIX. IT CONTAINS INFORMATION ABOUT DIRECTORY STRUCTURE, INSTALLATION, MAKEFILES, HARDWARE REQUIREMENTS, AND MISCELLANEOUS FACILITIES OF PWB/GRAPHICS.
- UNSA1522 M2 RETRIEVAL AND REPORTS
MUTCHINSON, E. C.
NOVEMBER 1979 THIS MANUAL PRESENTS THE INFORMATION NEEDED TO RETRIEVE DATA FROM AN M2 DATA BASE AND TO GENERATE REPORTS PRESENTING THE RETRIEVED INFORMATION.
- UNSA1523 DEVELOPING AN M2 APPLICATION
LAMB, J. E.
NOVEMBER 1, 1979 THIS PAPER PRESENTS AN OVERVIEW OF M2, A STEP BY STEP GUIDE TO THE DEVELOPMENT OF AN M2 APPLICATION, AND A COMPLETE EXAMPLE IMPLEMENTATION.
- UNSA1524 M2 DATA ENTRY AND UPDATE MANUAL
PARTEL, M. P.
OCTOBER 25, 1979 THIS DOCUMENT IS A USER'S GUIDE AND REFERENCE MANUAL FOR INTERFACING WITH AN M2 APPLICATION. IT DESCRIBES HOW TO ENTER AND MODIFY INFORMATION IN THE DATA BASE.
- UNSA1525 M2 ADMINISTRATOR'S PROGRAMMING MANUAL
GELLIS, M. S.
SEPTEMBER 28, 1979 THIS DOCUMENT IS A PROGRAMMER'S GUIDE FOR PRODUCING M2 DATA BASE SYSTEMS. ITS INTENDED USE IS BY THOSE INDIVIDUALS WHO WOULD BE RESPONSIBLE FOR EITHER SPECIFYING REQUIREMENTS FOR, GENERATING, OR MAINTAINING, AN M2 DATA BASE SYSTEM.
- UNSA1526 M2 GENERATION SYSTEM MANUAL
QUINN, M. E.
JUNE 28, 1979 THIS DOCUMENT IS A USER'S GUIDE, REFERENCE MANUAL, AND ADMINISTRATOR'S GUIDE FOR THE GEN SYSTEM.
- UNSA1529 SHELL COMMANDS FOR RELATIONAL OPERATIONS ON FIELDED FILES (SCROFF)
SALCHENBERGER, S. M.
TM 80-8424-1 JANUARY 2, 1980 THIS MEMORANDUM DESCRIBES A SET OF SHELL LEVEL COMMANDS (CALLED SCROFF) DESIGNED TO BRIDGE THE GAP BETWEEN THE AFOREMENTIONED CHOICES.
- UNSA1539 IN-CORE TABLE SEARCH FUNCTIONS
ROOME, W. D.
TM 80-3633-2 MARCH 3, 1980 THE IN-CORE TABLE SEARCH (ICT) PACKAGE LETS C PROGRAMS SEARCH SMALL, READ-ONLY IMAGES OF TABULAR DATA VERY QUICKLY. THE ICT PACKAGE IS DIVIDED INTO TWO PARTS; A SET OF UTILITY COMMANDS, AND A LIBRARY OF FUNCTIONS. THIS PAPER PRESENTS THE BASICS CONCEPTS, AND GIVES AN OVERVIEW OF THE C FUNCTIONS.
- UNSA1547 OVERVIEW OF THE REDAS DATA BASE MANAGER IN UNIX/TS AUGMENTED
BROVMAN, I. - MASTERS, C. E.
TM 80-3121-1 MARCH 14, 1980 THIS PAPER DESCRIBES REDAS, A RELATIONAL DATABASE THAT IS USED IN THE NOC AND RADAS OSS SYSTEMS.
- UNSA1548 DESCRIPTION OF A MENU CREATION AND INTERPRETATION SYSTEM
HEFFLER, M. J.
TM 80-3166-2 FEBRUARY 21, 1980 THIS MEMO DESCRIBES THE MENU CREATION AND INTERPRETATION SYSTEM (MCIS) THAT CAN PROVIDE THE USER INTERFACE AND THE HIGH-LEVEL CONTROL STRUCTURE FOR ANY MENU-DRIVEN SOFTWARE SYSTEM.
- UNSA1549 MI - PLUS
YANOFCHICK, R. J.
TM 80-9844-1 APRIL 8, 1980 MI IS AN INTERACTIVE HIERARCHICAL DATA MANAGEMENT SYSTEM THAT RUNS UNDER THE UNIX OPERATING SYSTEM. A GENERAL PURPOSE, SCREEN ORIENTED DATA ENTRY AND UPDATE SYSTEM IS AVAILABLE FOR USE WITH THE SYSTEM.
- UNSA1551 MULCA - MODULAR UNIX BASED LANGUAGE AND GRAPHIC AID FOR THE STRUCTURED DESIGN OF INTEGRATED CIRCUITS
WESTE, NEIL
TM 80-1384-4 MAY 1, 1980 TO AID DESIGN OF CMOS INTEGRATED CIRCUITS A SUITE OF UTILITY PROGRAMS RESIDING ON UNIX-TS HAVE BEEN WRITTEN. THE FUNCTION OF THESE PROGRAMS IS SUMMARIZED.
- UNSA1552 PACKET MANIPULATION LANGUAGE USER'S MANUAL
ROCHKIND, MARC J.
TM 80-9323-2 MAY 1, 1980 THIS MANUAL DESCRIBES PACKETS AND THE FUNCTIONS USED TO MANIPULATE THEM FROM AN EXTERNAL POINT OF VIEW. THE IMPLEMENTATION IS NOT DESCRIBED; INDEED, MANY DIFFERENT IMPLEMENTATIONS ARE POSSIBLE.
- UNSA1557 REIMPLEMENTATION OF CBIE (THE COMPUTER BUFFERED INFORMATION EXCHANGE) UNDER THE UNIX OPERATING SYSTEM
STROM, S. IVAN
TM 80-9482-3 MAY 13, 1980 THIS PAPER DISCUSSES THE REASONS FOR REIMPLEMENTING CBIE UNDER UNIX AND THE ACTUAL IMPLEMENTATION, AND DISCUSSES IMPLEMENTATION PROBLEMS THAT WERE MET AND DECISIONS THAT WERE MADE TO SOLVE THESE PROBLEMS. IT ALSO DESCRIBES IMPLEMENTATION AND USER INTERFACE DIFFERENCES BETWEEN OLD AND NEW VERSIONS.
- UNSA1558 PIC - A CRUDE GRAPHICS LANGUAGE FOR TYPESETTING
KERNICHAN, BRIAN W.
TM 80-1272-2 JUNE 9, 1980 PIC IS A CRUDE LANGUAGE FOR DRAWING SIMPLE FIGURES ON A TYPESETTER. THIS PAPER DESCRIBES THE CURRENT VERSION OF PIC. SINCE THE LANGUAGE IS STILL VERY MUCH UNDER DEVELOPMENT, EVERYTHING HERE SHOULD BE TREATED AS PRELIMINARY AND SUBJECT TO VIOLENT CHANGE.

"UNSA - SPECIAL APPLICATIONS"

- UNSA1567 **USERS' GUIDE TO CODE: THE PARASITE-BASED CODING SYSTEM**
MURREL, SHARON
TM 80-1229-6 JULY 11, 1980 THIS MEMO DESCRIBES THE CODING SYSTEMS, THE PROGRAMS INVOKED BY THE USER AND THE FUNCTIONS BEHIND THEM. IT ALSO PROVIDES INSTRUCTIONS FOR USING THE PROGRAMS.
- UNSA1574 **DATA FILE MANIPULATION ROUTINES**
MURREL, SHARON
TM 80-1229-7 JULY 11, 1980 THIS MEMO DESCRIBES A SET OF UTILITIES WHICH IS AVAILABLE FOR PRINTING, FOR EXTRACTING AND MERGING INFORMATION FROM DATA FILES.
- UNSA1575 **TIME-LINE ANALYSES UNDER UNIX**
MURREL, SHARON
TM 80-1229-8 JULY 11, 1980 TLA, A TIME-LINE ANALYSIS ROUTINE, ANALYZES MANY CHANNELS OF INFORMATION ABOUT CONCURRENT BEHAVIOR SAMPLES BY RELATING THESE CHANNELS TO ONE ANOTHER IN TIME.
- UNSA1576 **DATABASE IMPLEMENTATION CONSIDERATIONS**
BROYMAN, I.
TM 80-3121-4 MAY 15, 1980 IN AN EFFORT TO PRODUCE A DISTRIBUTED DBMS IN A LIMITED AMOUNT OF TIME, IT IS SUGGESTED TO USE THE AVAILABLE (AND SUCCESSFULLY WORKING IN THE FIELD) DBMS CALLED REDAS AND PUT ON TOP OF IT AN EXTRA "LAYER" OF SOFTWARE TO TAKE CARE OF DATA DISTRIBUTION AND MAKE THE DBMS DISTRIBUTED. SOME ASPECTS OF THAT IMPLEMENTATION DESIGN ARE DOCUMENTED HERE.
- UNSA1586 **THE DATA KERNEL, THE DATA BASE INTERFACE FOR MOOM**
KEESE, W. M.
TM 80-9544-3 AUGUST 7, 1980 THE DATA KERNEL IS A DATA BASE INTERFACE. THIS PAPER COVERS ONLY THE BASIC DATA KERNEL.
- UNSA1590 **UNIX/CM CHANGE MANAGEMENT PROCEDURES**
STORM, N. E.
JUNE 15, 1980 THIS USER MANUAL DESCRIBES THE PROCEDURE FOR COMPLETING AND SUBMITTING MODIFICATION REQUEST (MRS) FOR UNIX/CM.
- UNSA1591 **USAGE AND PERFORMANCE EVALUATION OF A COMPUTER CONFERENCING SYSTEM**
STROM, B. IVAN
TM 80-9482-4 JUNE 23, 1980 THIS PAPER CONTAINS THE RESULTS OF A VERY PRELIMINARY STUDY OF THE USE OF CBIE IN A NUMBER OF COMPUTER CONFERENCES.
- UNSA1592 **COMPUTER CONFERENCING - PAST, PRESENT, AND FUTURE**
STROM, B. IVAN
TM 80-9482-5 JUNE 25, 1980 THIS PAPER DISCUSSES COMPUTER CONFERENCING IN GENERAL, AND THE COMPUTER SUPPORTED INFORMATION EXCHANGE IN PARTICULAR. IT CONTAINS DESCRIPTIONS OF THE WORK OF OTHER RESEARCHERS IN FIELD. A DETAILED DESCRIPTION OF COMPUTER CONFERENCING AND CBIE, AND SUGGESTIONS FOR FUTURE RESEARCH.
- UNSA1593 **A VIRTUAL FIELD GENERATOR FOR A FIELDED DATA BASE**
RUBINSTEIN, P. I.
TM 79-9487-2 JULY 24, 1979 THIS MEMORANDUM CONTAINS A DESCRIPTION OF ALL THE COMPONENTS OF A SYSTEM WHICH CAN BE USED TO CREATE A VIRTUAL FIELD GENERATOR. ALSO DESCRIBED ARE TWO USER INTERFACES WHICH HAVE ALREADY BEEN IMPLEMENTED FOR USE WITH THE VIRTUALIZER SOFTWARE.
- UNSA1594 **QUE: A UNIX-LIKE EXECUTIVE FOR THE Z80 MICROPROCESSOR**
STURZENBECKER, MARTIN C.
TM 79-1352-16 OCTOBER 16, 1979 THIS MEMORANDUM DESCRIBES THE STRUCTURE OF THE EXECUTIVE, ITS THEORY OF OPERATION, ITS POTENTIAL AND ITS LIMITATIONS.
- UNSA1595 **BRIDGE: A UNIX EXPERIMENT FOR HOME COMPUTER SERVICES**
LACHMAN, D. + STORER, J. A.
TM 80-1352-13 APRIL 1, 1980 THIS MEMORANDUM DESCRIBES SOFTWARE FOR PLAYING BRIDGE ON A UNIX SYSTEM.
- UNSA1596 **A USER MANUAL FOR THE MENU CREATION AND INTERPRETATION SYSTEM**
HEFFLER, MICHAEL J.
80-3172-1 SEPTEMBER 8, 1980 THIS IS THE USER MANUAL FOR THE MENU CREATION AND INTERPRETATION SYSTEM (M THIS MANUAL WILL DESCRIBE HOW TO BUILD, USE AND MODIFY MENU SYSTEMS. SEE ALSO UNSA(1546)
- UNSA1597 **A "C" BASED SOFTWARE INTERFACE PACKAGE FOR THE RAMTEK 9400 CO RASTER GRAPHICS SYSTEM**
SHLIFERSTEIN, A.
OCTOBER 30, 1980 AN OVERVIEW OF THE RAMTEK COLOR RASTER SYSTEM IS GIVEN.
- UNSA1598 **A DEVICE DRIVER FOR THE RAMTEK 9400 COLOR RASTER GRAPHICS SYSTEM UNDER THE UNIX OPERATING SYSTEM**
SHLIFERSTEIN, A.
DECEMBER 2, 1980 THIS DOCUMENT DESCRIBES THE DEVELOPMENT AND OPERATION OF THE RAMTEK 9400 DEVICE DRIVER.
- UNSA1615 **A SET OF C ROUTINES FOR ASSOCIATIVE DATABASE OPERATIONS WITH THE UNIX OPERATING SYSTEM**
BEYER, J-D
TM 79-3234-1 JANUARY 15, 1979 THIS MEMORANDUM DESCRIBES A GROUP OF SUBROUTINES WRITTEN IN THE C PROGRAMMING LANGUAGE USEFUL FOR DOING ASSOCIATIVE ENTRY AND RETRIEVAL OF RECORDS IN A DATABASE SYSTEM.
- UNSA1616 **DESIGNER'S WORKBENCH - PHILOSOPHY**
O'NEIL, L. A.
TM 80-4393-9 OCTOBER 3, 1980 DESIGNER'S WORKBENCH (DWB) INCREASES THE PRODUCTIVITY OF THE DESIGN AIDS USER BY BUFFERING THE USER FROM THE IDIOSYNCRASIES OF THE APPLICATION PROGRAMS AND THE COMPUTERS ON WHICH THEY RUN. IN ADDITION TO DESCRIBING THE DESIGN CONSTRAINTS APPLIED DURING THE DEVELOPMENT OF DWB, THIS PAPER ALSO INTRODUCES THREE OTHER TECHNICAL MEMORANDUM THAT DESCRIBE IN DETAIL THE USER, PROGRAMMER AND PRODUCTION ENVIRONMENTS CREATED BY DWB. SEE ALSO UNSA(1617) - UNSA(1618) + UNSA(1619) - UNSA(1643)
- UNSA1617 **DESIGNER'S WORKBENCH - PROVIDING A PRODUCTION ENVIRONMENT**
THOMPSON, T. J.
TM 80-4393-10 OCTOBER 3, 1980 SEE ALSO UNSA(1616)
- UNSA1618 **DESIGNER'S WORKBENCH - THE PROGRAMMER ENVIRONMENT**
MCDONALD, P. H. - THOMPSON, T. J.
TM 80-4285-3, TM 80-4393-11 OCTOBER 3, 1980 SEE ALSO UNSA(1616)

"UNSA - SPECIAL APPLICATIONS"

- UNSA1619 A LSI-UNIX (LSX) TEST SET FOR THE CALL PROCESS SYSTEM
MULROONEY, T. J.
TM 80-2211-5 OCTOBER 30, 1980 A SYSTEM TEST CAPABLE OF EXERCISING THE ESS-CPS INTERFACE IS DESCRIBED IN THIS REPORT.
- UNSA1620 CONCURRENCY AND CRASH RECOVERY IN MOGM
GERVIRTZ, W. L.
TM 79-8844-1 NOVEMBER 30, 1979 THIS PAPER DESCRIBES A CONCURRENCY SCHEME FOR A DATABASE, DISTRIBUTED AMONG MULTIPLE LOOSELY-COUPLED SITES, WHICH ALLOWS SIMULTANEOUS ACCESS BY NON-INTERFERING WRITERS AND AN ARBITRARY NUMBER OF READERS.
- UNSA1637 AN OVERVIEW OF THE AREA 90 PWB/UNIX ACCOUNTING SYSTEM
R. M. KOFCED, JR.
JANUARY 24, 1979 THIS MEMORANDUM PRESENTS A DESCRIPTION OF THE PWB/UNIX RESOURCE ACCOUNTING TOOLS AND INTERFACES AS USED BY AREA 90 SYSTEMS. A DISCUSSION OF THE VARIOUS ACCOUNTING RECORDS IS PRESENTED, FOLLOWED BY AN OVERVIEW OF THE ACCOUNTING PROGRAMS AND FILES, AND FINALLY A BRIEF SUMMARY OF THE FISCAL ACCOUNTING PROCEDURE. SEE ALSO UNSA(1638)
- UNSA1638 DAILY ACCOUNTING PROCEDURES FOR PWB OPERATIONS
R. M. KOFCED, JR. + SMITH, M. L.
JANUARY 25, 1980
- UNSA1643 DESIGNER'S WORKBENCH - THE USER ENVIRONMENT
BREILAND, J. R. + FRIEDENSON, R. A.
TM 80-4266-2 OCTOBER 3, 1980 THIS PAPER DESCRIBES THE USER ENVIRONMENT. IT INCLUDES A DESCRIPTION OF THE DESIGN TECHNOLOGIES, PROCES AND AIDS. IT THEN PRESENTS THE DESIGNER'S WORKBENCH APPROACH TO IMPROVING THE ACCEPTANCE AND EFFICIENCY OF THOSE AIDS.
- UNSA1644 A UNIX BASED TERMINAL DRIVER FOR IES
FIALKOFF, R. J.
TM 81-45281-5 JANUARY 15, 1981 A REMOTE TERMINAL DRIVER HAS BEEN DEVELOPED ON UNIX. THE DRIVER, ALTHOUGH ORIGINALLY DESIGNED TO EVALUATE THE PERFORMANCE OF THE TRFS INTELLIGENT ENTRY SYSTEM (IES), IS FLEXIBLE ENOUGH TO BE ADAPTED TO DRIVE ANY ASYNCHRONOUS INTERACTIVE COMPUTER SYSTEM.
- UNSA1645 ENHANCEMENTS TO THE UNITY DBMS
FELTS, S.
TM 80-9335-1 DECEMBER 22, 1980 THE UNIX DBMS HAS BEEN ENHANCED SO THAT IT IS MORE USER-ORIENTED AND PROVIDES NEW AND MORE POWERFUL COMMAND CAPABILITIES. THESE CHANGES ARE DESCRIBED.
- UNSA1646 FORM SHELL
KORN, D. G. - LAMBETH, D. A.
TM 80-9224-3 DECEMBER 8, 1980 THIS MEMO DESCRIBES GENERAL PURPOSE SOFTWARE THAT HAS BEEN DESIGNED TO ENABLE A USER TO ENTER DATA ON A FORMATTED CATHODE RAY TUBE (CRT) SCREEN, CHECK THE DATA FOR CONSISTENCY, AND PASS IT ON TO A DATA BASE MANAGER.
- UNSA1651 EIS-EQUIPMENT INFORMATION SERVICES
LAMBERT, C. A.
TM 81-11353-2 JANUARY 9, 1981 THIS PAPER DESCRIBES THE AVAILABLE SERVICES AND INCLUDES COMMENTS-ON THE FUNCTION AND NECESSITY OF A PROGRAM ADMINISTRATOR. A USERS MANUAL IS INCLUDED.
- UNSA1656 STRUCTURED DATABASE MANAGEMENT SYSTEM
PANWA, A.
TM 81-45156-2 MARCH 25, 1981 THIS MEMORANDUM DESCRIBES A DATABASE MANAGEMENT SYSTEM WHICH WAS DESIGNED PRIMARILY TO ASSIST MARKETING THE 3B PRODUCT LINE. DESIGN OBJECTIVES, ARCHITECTURE AND CURRENT FACILITIES ARE DISCUSSED IN THIS PAPER.
- UNSA1657 EMU - A SIMPLE MOS TIMING SIMULATOR
ACKLAND, B. + WESTE, N.
TM 81-11354-2 JANUARY 15, 1981 A UNIX BASED MOS TIMING SIMULATOR IS DESCRIBED.
- UNSA1725 A DESIGN AIDE FOR RELATIONAL DATABASE SCHEMAS - USER MANUAL
BAGLEY, R. T.
TM 81-55422-5 SEPTEMBER 4, 1981 DATABASE DESIGN IS CONSIDERED ONE OF THE MOST DIFFICULT PROBLEMS IN DATABASE TECHNOLOGY. AN ALGORITHM TO AIDE IN THE PROCESS OF DATABASE DESIGN HAS BEEN DEVELOPED IMPLEMENTED. THIS DOCUMENT IS INTENDED TO BE A MANUAL DESCRIBING HOW TO BUILD, USE AND INTERPRET THAT DESIGN ALGORITHM.
- UNSA1726 DIRECT II - AN APPROACH TO THE DESIGN OF APPLICATION SOFTWARE
CANADAY, R. M.
TM 81-45191-1 MARCH 2, 1981 THIS MEMORANDUM IS A RETROSPECTIVE ON THE DIRECT II SYSTEM. IT DESCRIBES THE DESIGN TECHNIQUES USED IN DIRECT II. IT ALSO INCLUDES A BIBLIOGRAPHY.
- UNSA1727 DBIS - A DATABASE SYSTEM WITH INTERRELATIONAL SEMANTICS
LIEN, Y. E. + SHOPIRO, J. S. + TSUR, S.
TM 81-45193-2 AUGUST 7, 1981 DBIS IS AN EXPERIMENTAL MULTI-USER DATABASE SYSTEM THAT SUPPORTS AN ENTITY-DATA MODEL WITH RELATIONAL AND INTERRELATIONAL SEMANTICS. IT MAINTAINS A SHARP DISTINCTION BETWEEN THE USER'S WORKSPACE (WHICH PROVIDES THE FULL CAPABILITY OF UNIX TOOLS) AND THE SHARED DATABASE (A CONTROLLED ENVIRONMENT). TRANSACTIONS ARE EXECUTED BY A SIMULATED NETWORK OF STREAM PROCESSORS.
- UNSA1731 USER'S GUIDE FOR GENESIS, A UNIX-BASED GENERAL PURPOSE INFORMATION RETRIEVAL SYSTEM
CONIGLIARO, N. J.
TM 81-84312-3 JULY 29, 1981 GENESIS IS A GENERAL-PURPOSE INFORMATION RETRIEVAL SYSTEM, INTENDED FOR USE IN IMPLEMENTING HIERARCHICALLY-STRUCTURED DATA BASES, USING UNIX AS THE HOST SYSTEM.

"UNSD - STANDARD DOCUMENTATION"

- UNSD1037 REFERENCING STANDARD UNIX DOCUMENTATION
VOGEL, G. C.
AUGUST 23, 1974 MEMORANDUM FOR FILE
- UNSD1046 UNIX SUPPORT CLASSIFICATIONS FOR PG-1C300 - ISSUE 2
VOGEL, G. C.
MF 76-8234-9 JANUARY 30, 1976 THE PURPOSE OF THIS MEMORANDUM IS TO DEFINE LEVELS OF SUPPORT AND TO
ASSIGN PIDENTS TO THESE CLASSIFICATIONS.
- UNSD1099 PROGRAM GENERIC CONTROL AND DOCUMENTATION ON UNIX
VOGEL, G. C.
TM 76-8234-13 MAY 17, 1976 THIS MEMORANDUM DESCRIBES A GENERAL SET OF PROGRAM GENERIC CONTROL AND
DOCUMENTATION PROCEDURES WHICH HAS BEEN DEVELOPED TO BELL SYSTEM FORMAT.
- UNSD1107 PROGRAMMER'S WORKBENCH PAPERS FROM THE SECOND INTERNATIONAL CONFERENCE ON SOFTWARE ENGINEERING.
(G.4)
, T. A. COLOTTA, ET AL.
FOR COMPLETE INFORMATION, SEE UNED (G.4)
- UNSD1162 THE UNIX OPERATING SYSTEM - PG-1C300
VOGEL, G. C.
FOR COMPLETE INFORMATION, SEE UNOS
- UNSD1291 RECOMMENDATIONS FOR A COMPANY-WIDE UNIX EDUCATION PROGRAM
, R. M. COBEN, ET AL.
JUNE 6, 1978 THIS REPORT PRESENTS AN OVERVIEW OF THE USE OF UNIX AT BELL LABORATORIES, VIEW OF THE
CHALLENGE FOR UNIX EDUCATION, AND OUR SPECIFIC RECOMMENDATIONS
- UNSD1298 TITLE LISTINGS FOR UNIX MEMORANDA
CROWLEY, T. R.
MF 78-8234-79 SEPTEMBER 7, 1978 A SHELL PROGRAM, TLIST, HAS BEEN WRITTEN TO PRODUCE HIGH QUALITY
LISTINGS OF THE TITLES AND AUTHORS OF UNIX MEMORANDA FOR THE COMPUTING INF
- UNSD1363 A PUBLIC LIBRARY FACILITY FOR THE UNIX TIME-SHARING SYSTEM
TING, D. W. - GLASSER, A. L.
TM 79-3111-1 FEBRUARY 21, 1979 A PUBLIC LIBRARY IN A COMPUTER IS AN AREA OF MEMORY LOADED WITH
FREQUENTLY SUBROUTINES. THIS MEMORANDUM DESCRIBES AN IMPLEMENTATION OF THIS FACILITY
- UNSD1420 SUPPORTED STRUCTURE FOR LOCAL MODIFICATIONS TO UNIX
COHEN, A. S.
JULY 26, 1979 THIS PAPER PROPOSES WAYS TO IMPROVE THE SEPARATION OF LOCAL AND CENTRALLY-SUPPORTED
SOFTWARE TO PROMOTE DISCUSSION ON THIS SUBJECT.

"UNSU - SERVICE AND UTILITY PROGRAMS"

- UNSU1003 IMPLEMENTATION OF LARGE CONTIGUOUS FILES AND ASYNCHRONOUS I/O IN UNIX
LYCKLAMA, M.
TM 74-1352-1 JANUARY 4, 1974 THIS DOCUMENT DESCRIBES PHYSICAL I/O FOR THE UNIX - A (ASSEMBLER) BASED SYSTEM.
- UNSU1025 SYNTHETIC ENGLISH SPEECH BY RULE
MCILROY, M. D.
TM 73-1271-7 DECEMBER 7, 1973
- UNSU1068 UNIXLIST - AN IBM/370 UTILITY PROGRAM TO LIST A UNIX FILE STORED ON A 9-TRACK MAGNETIC TAPE.
ROBERTS, C. S.
JANUARY 29, 1975 MEMORANDUM FOR RECORD
- UNSU1078 MAKE - A PROGRAM FOR MAINTAINING COMPUTER PROGRAMS
FELDMAN, S. I.
AUGUST 15, 1978 THIS MEMO DESCRIBES A PROGRAM CALLED MAKE THAT PROVIDES A SIMPLE MECHANISM FOR MAINTAINING UP-TO-DATE VERSIONS OF PROGRAMS THAT RESULT FROM MANY OPERATIONS ON A NUMBER OF FILES.
- UNSU1081 A TAPE BACK-UP SYSTEM FOR THE NETWORK FILE STORE
ELLIOTT, R. J.
TM 75-1273-12 NOVEMBER 24, 1975 THIS PAPER DESCRIBES A SYSTEM WHICH MAINTAINS A COMPLETE COPY ON TAPE OF ALL FILES ON THE FILE STORE OF THE SPIDER NETWORK.
- UNSU1107 PROGRAMMER'S WORKBENCH PAPERS FROM THE SECOND INTERNATIONAL CONFERENCE ON SOFTWARE ENGINEERING.
(G.4)
T. A. DOLOTTA, ET AL.
FOR COMPLETE INFORMATION, SEE UNED (G.4)
- UNSU1118 UNIX-INTELLEC MOS INTERFACE
LENCOSKI, JOSEPH E. - TARTARONE, STUART A.
TM 76-3141-1, TM 76-3142-1 SEPTEMBER 1, 1976 THIS MEMORANDUM DESCRIBES THE INTERFACE INCLUDING A SYNOPSIS OF THE NEW UNIX COMMANDS TO ACCESS THESE FEATURES AND PROVIDES A PROGRAM LISTINGS OF THE NEW SOFTWARE DEVELOPED.
- UNSU1140 DESCRIPTION OF MKCONF
MANNER, I. A. - RALEIGH, T. M.
MF 77-8234-5 JANUARY 17, 1977 THE PURPOSE OF THIS DOCUMENT IS TO DESCRIBE THE PROGRAM MKCONF, WHICH IS AN INTERACTIVE PROGRAM THAT GENERATES TWO CONFIGURATION DEPENDENT FILES.
- UNSU1149 UNIX ASSEMBLER FOR THE INTEL 8080 MICROPROCESSOR
MOLINELLI, J. J.
FOR COMPLETE INFORMATION, SEE UNPL
- UNSU1153 AN INTEGRATED SYSTEM FOR MICROPROCESSOR SUPPORT
COPP, D. H. - COUNCIL, R. J. - HUNTSBERGER, D. J. - MOLINELLI, J. J. - VAN
TM 77-8234-1, TM 77-3233-8, TM 77-3231-1 MARCH 17, 1977 THIS MEMORANDUM DESCRIBES A SET OF TOOLS, REFERRED TO AS THE MICROPROCESSOR SUPPORT (MS) SYSTEM, DESIGNED TO REDUCE FIRMWARE DEVELOPMENT COST THROUGH EFFICIENT USAGE OF THE HUMAN RESOURCE.
- UNSU1156 A GENERALIZED DATA ENTRY SYSTEM
ROCHKIND, M. J.
TM 77-9156-1 APRIL 1, 1977 THE HUMAN AND PROGRAMMING INTERFACES TO THE SYSTEM ARE DESCRIBED AND INSTRUCTIONS ARE GIVEN FOR BUILDING THE DRIVING TABLES.
- UNSU1168 A CONSOLE CONTROLLED INTERFACE BETWEEN AN INTELLEC MOS AND A TIME-SHARED COMPUTER SYSTEM.
LENCOSKI, J. E. - TARTARONE, S. A. - J. E. WILKES JR.
TM 77-3141-2, TM 77-3142-2 MAY 31, 1977 THIS MEMORANDUM DESCRIBES TWO DIFFERENT APPROACHES FOR MODIFYING INTELLEC HARDWARE, A SMALL MONITOR PROGRAM AND INFORMATION INCLUDING COMMAND SEQUENCES AND INSTRUCTION FOR LOCAL CONFIGURATION.
- UNSU1171 A RECORD MANAGER FOR RANDOM ACCESS TO VARIABLE LENGTH RECORDS UNDER UNIX.
SEYER, J. D.
TM 77-1353-5 JUNE 1, 1977 THIS MEMORANDUM DESCRIBES A RANDOM RECORD MANAGER FOR UNIX DISK FILE. IT IS MEANT TO BE BOTH A USER'S GUIDE AND A BRIEF OVERVIEW OF THE WORKINGS OF THE SYSTEM.
- UNSU1172 QUEST - A COMPUTER SYSTEM TO COLLECT QUESTIONNAIRE DATA
ALBRECHT, E. H.
MAY 16, 1977 MEMORANDUM FOR FILE QUEST CAN BE USED TO ISSUE A QUESTIONNAIRE, COLLECT THE ANSWERS TO THE QUESTIONNAIRE AND PREPARE THE RESULTING DATA FOR ANALYZATION.
- UNSU1186 LINT, A C PROGRAM CHECKER
JOHNSON, S. C.
JULY 26, 1978 LINT IS A COMMAND WHICH EXAMINES C SOURCE PROGRAMS TO DETECT AND REPORT ABOUT A NUMBER OF BUGS AND OBSCURITIES. THIS DOCUMENT DISCUSSES THE USE OF LINT, GIVES AN OVERVIEW OF THE IMPLEMENTATION, AND GIVES SOME HINTS ON THE WRITING OF MACHINE INDEPENDENT C CODE.
- UNSU1209 A LEXICOGRAPHIC MULTIKEY SORT PROGRAM ZSORT
ZUCKER, M.
OCTOBER 31, 1977 THIS MEMORANDUM DESCRIBES THE FEATURES OF AN EFFICIENT C LANGUAGE SORT PRO AND THE CHARACTERISTICS OF THE SORTING ALGORITHMS WHICH WERE EMPLOYED.
- UNSU1210 EXAMPLES OF CONVERTING USG SHELL COMMAND FILES FOR THE NEW SHELL
CSASZAR, M. A.
MF 77-8234-100 NOVEMBER 22, 1977 THIS MEMORANDUM DESCRIBES EXAMPLES OF CONVERTING USG SHELL COMMAND FILES FOR THE NEW CENTER 127 SHELL WRITTEN BY S. R. BOURNE. EXAMPLES OF C 323 FILES CONVERSION OF SHELL PROGRAMS ARE SHOWN.
- UNSU1215 RXD-110: TWO PROGRAMS TO GENERATE UNIX-COMPATIBLE MAGNETIC TAPES
SWANSON, G. K.
NOVEMBER 17, 1977 TWO PROGRAMS TO WRITE SOURCE FILES TO 9 TRACK, 800 BPI MAGNETIC TAPES HAVE BEEN WRITTEN FOR THE POP-11/46 AND RUN UNDER THE RSX-110 REAL-TIME OPERATING SYSTEM.

"UNSU - SERVICE AND UTILITY PROGRAMS"

- UNSU1219 UNIX MICROCOMPUTER CONTROL OF APPARATUS, MACHINERY, AND EXPERIMENTS
WONSIWICZ, B. C. - STORM, A. R. - SIEVER, J. D.
TM 77-1523-25, TM 77-1527-114 OCTOBER 21, 1977 THIS PAPER DESCRIBES A SYSTEM FOR LABORATORY AUTOMATION USING THE UNIX TIME-SHARING SYSTEM WHICH HAS PERMITTED EXPERIMENTS TO BE AUTOMATED IN HOURS RATHER THAN YEARS.
- UNSU1223 AN INTERACTIVE LEAP SCRIPT GENERATOR (:LSG)
CYKIERT, N. M. + HESS, B. E.
TM 77-9423-3 DECEMBER 2, 1977 THIS MEMORANDUM DESCRIBES A NEWLY DEVELOPED TOOL WHICH SIGNIFICANTLY REDUCES THE COST OF LEAP SCRIPTS.
- UNSU1227 GEX - AN INTERACTIVE GRAPHICS PROGRAM
JACKOWSKI, D. J.
TM 77-8254-3 DECEMBER 7, 1977 THIS MEMO INCLUDES USER INFORMATION AND A DISCUSSION OF THE SOFTWARE. GEX IS DESIGNED TO RUN ON THE PDP-11 UNDER UNIX WITH A TEKTRONIX TERMINAL.
- UNSU1238 A SYSTEM TESTING TECHNIQUE USING A UNIVERSAL LEAP SCRIPT
PETSCHENIK, N. H. - WOODALL, R. P.
TM 77-9426-2 AUGUST 31, 1977 LEAP, A BTL DEVELOPED TEST DRIVER WRITTEN FOR THE PWB/UNIX SYSTEM, SUPPORTS THE PREPARATION AND EXECUTION OF SUCH REPEATABLE TEST BY SENDING, RECEIVING AND PROCESSING THE SIGNAL BETWEEN SIMULATED TERMINALS AND AN INTERACTIVE SYSTEM UNDER TEST.
- UNSU1243 CLIO - A RELATIONAL DATA BASE SYSTEM
PARA, P. S.
TM 78-5522-2 FEBRUARY 9, 1978 THIS MEMO DESCRIBES CLIO WHICH INCLUDES GENERAL PROGRAMMING LANGUAGE CAPABILITIES AS WELL AS FACILITIES FOR USE AS A DATA BASE-DRIVEN COMMAND LANGUAGE.
- UNSU1245 QUIK: A NOVEL APPROACH TO COMPUTERIZED DIRECTORY ASSISTANCE SERVICES
GABBE, J. D. + JUDICE, C. N. - LONDON, T. B. + BEYER, J. D.
DECEMBER 12, 1977 THIS PAPER GIVES AN OVERVIEW OF AN EXPERIMENTAL DIRECTORY ASSISTANCE SYSTEM, QUIK (QUERYING INTERACTIVELY BY KEYWORDS), CURRENTLY BEING USED AS A TOOL FOR RESEARCH IN INFORMATION STORAGE, RETRIEVAL, AND PEOPLE-COMPUTER INTERACTIONS.
- UNSU1251 DECENTRALIZED TRANSACTION CONTROL AND CRASH RECOVERY
WEINBERGER, P. J.
TM 78-3444-3 APRIL 4, 1978 THIS PAPER CONTAINS ALGORITHMS FOR TRANSACTION CONTROL AND CRASH RECOVERY IN A DATA BASE SYSTEM.
- UNSU1252 STAT: A TOOL FOR ANALYZING DATA
FEUER, A. R.
TM 78-9442-4 MARCH 21, 1978 STAT IS AN EMERGING COLLECTION OF NUMERICAL PROGRAMS UNDER THE UNIX OPERATING SYSTEM THAT CAN BE INTERCONNECTED USING SHELL TO FORM PROCESSING NETWORKS.
- UNSU1262 USER'S GUIDE TO THE SMALL LANGUAGE FOR THE ZILOG Z80 MICROPROCESSOR
FARRELL, J. W.
TM 78-8234-8 MARCH 21, 1978 SMALL IS A STRUCTURED ASSEMBLY LEVEL LANGUAGE ORIGINALLY DEVELOPED FOR THE INTEL 8080 MICROPROCESSOR. IT HAS RECENTLY BEEN EXPANDED FOR USE WITH THE ZILOG Z80 MICROPROCESSOR. THE LANGUAGE FEATURES CONTROL STRUCTURES LIKE THOSE OF THE C PROGRAMMING LANGUAGE BUT OTHERWISE HAS A ONE-TO-ONE RELATIONSHIP TO THE Z80 MACHINE INSTRUCTIONS.
- UNSU1268 INTERACTIVE DESIGN AID FOR GENERAL-PURPOSE ARTWORK PRODUCTION
FASCIANO, V. A.
TM 78-8254-3 JUNE 1, 1978 THIS GROUP OF COMPUTER PROGRAMS HAS BEEN PREPARED FOR USE WITH PDP-11 COMPUTERS WHICH ARE INTENDED TO ASSIST IN THE CREATION AND MODIFICATION OF GENERAL-PURPOSE ARTWORK SUCH AS FLOWCHARTS, ILLUSTRATIONS, SIMPLE LOGIC DIAGRAMS, AND OFFICE FURNITURE LAYOUTS. ALL PROGRAMS ARE WRITTEN IN THE C LANGUAGE.
- UNSU1273 UNIX/TS FILE SYSTEM BACKUP
HAIGHT, R. C.
MF 78-8234-42 MAY 11, 1978 THE DUMP/RESTOR, VOLCOPY, CPIO/FIND BACKUP SYSTEMS WILL BE DISTRIBUTED WITH THE FIRST RELEASE OF UNIX/TS.
- UNSU1275 8080/Z80 SIMULATOR SMD8 USER MANUAL
REGELSON, K. L.
TM 78-8234-1 JANUARY 15, 1978 THE 8080/Z80 MICROPROCESSOR SIMULATOR, RUNNING UNDER THE UNIX OPERATING SYSTEM, PROVIDES SOFTWARE SIMULATION OF THE INTEL 8080 AND THE ZILOG Z80 CPUS. THIS MEMO HAS TWO MAIN PARTS: A TUTORIAL AND A REFERENCE MANUAL.
- UNSU1279 UNIX SOFTWARE DISTRIBUTION BY COMMUNICATION LINK
LESK, M. E. + COHEN, A. S.
TM 78-1274-3, TM 78-8234-5 FEBRUARY 24, 1978 THIS DOCUMENT DISCUSSES THE OPERATION OF THE UUCP (UNIX TO UNIX COPY) AND RELATED PROGRAMS; THEIR USAGE OVER THE LAST YEAR; AND PLANS FOR THE FUTURE.
- UNSU1286 PROPOSED STRUCTURE FOR UNIX/TS AND UNIX/RT MAKEFILES
CHELLIS, A. L.
MF 78-8234-73 JULY 26, 1978 THIS MEMO ILLUSTRATES THE MINIMUM REQUIREMENTS FOR FUTURE MAKEFILES. IT SHOULD MAKE FILE MAINTENANCE EASIER AND MORE EFFICIENT.
- UNSU1288 CUMULATIVE PROGRAM PROFILING
REISER, J. F.
TM 78-1353-2 JULY 1, 1978 AN AUTOMATIC ACCUMULATION METHOD IS DESCRIBED FOR PROGRAMS WRITTEN IN C AN OPERATING SYSTEM.
- UNSU1293 UUCP - IMPLEMENTATION DESCRIPTION
NOWITZ, D. A.
OCTOBER 31, 1978 UUCP IS A SERIES OF PROGRAMS DESIGNED TO PERMIT COMMUNICATION BETWEEN UNIX SYSTEMS. THIS DOCUMENT IS FOR USE BY AN ADMINISTRATOR OF THE SYSTEM.
- UNSU1294 UNIX STANDARDIZATION SUBCOMMITTEE PROPOSED ARCHIVING FACILITY
VOGEL, G. C.
MF 78-8234-99 SEPTEMBER 27, 1978 UNIX ARCHIVING PROPOSALS WERE DISCUSSED AT SEVERAL MEETINGS OF THE USS. THIS MEMORANDUM SUMMARIZES THE POINTS DISCUSSED AND OUTLINES THE PROPOSAL REACHED.

"UNSU - SERVICE AND UTILITY PROGRAMS"

- UNSU1295 REGRESSION TESTING FOR C COMPILERS
CROWLEY, T. R.
WF 78-8234-78 AUGUST 10, 1978 THIS MEMORANDUM DISCUSSES THE FACILITY FOR REGRESSION TESTING OF A C COMPILER WHICH HAS BEEN SET UP.
- UNSU1298 IMPLEMENTATION OF CR-Z GRAPHICS ON UNIX
HASKELL, B. G.
SEPTEMBER 8, 1978 THE PURPOSE OF THIS MEMORANDUM IS TO DESCRIBE THE PROGRAMS AND PROCEDURES NECESSARY FOR THE RUNNING OF CR-Z PROGRAMS ON UNIX.
- UNSU1304 THE EVOLUTION OF A SOURCE CODE CONTROL SYSTEM
GLASSER, A. L.
TM 78-3111-3 SEPTEMBER 12, 1978 THIS PAPER DESCRIBES THE FACILITIES PROVIDED BY SCCS, AND THE CHANGES THAT WERE MADE TO SCCS. SEE ALSO UNPM(1086)
- UNSU1308 MRCS AND THE MRCS 2 DATA BASE SYSTEM
GELLIS, M. S.
TM 78-9442-7 JULY 26, 1978 THIS PAPER DISCUSSES BOTH MRCS AND THE M2 SYSTEM WHICH HAS EVOLVED TO IMPL IT AND OTHER DATA BASE SYSTEMS.
- UNSU1326 SDIFF, A SIDE-BY-SIDE DIFFERENCE PROGRAM
MARANZANO, J. F.
DECEMBER 13, 1978 THE SDIFF COMMAND HAS BEEN WRITTEN TO PROVIDE A CONVENIENT DISPLAY OF THE DIFFERENCES OF TWO FILES AND A FACILITY FOR INTERACTIVE MERGING OF THE TWO
- UNSU1332 MONITOR TERMINALS UNDER THE UNIX OPERATING SYSTEM
MUNZER, T. B.
TM 78-9442-8 JULY 24, 1978 THIS MEMORANDUM DESCRIBES A PRIMITIVE IMPLEMENTATION SUITABLE FOR MANY USES, AND DESCRIBES SEVERAL POSSIBLE EXTENSIONS OF THE IMPLEMENTATION.
- UNSU1336 ENHANCEMENTS TO THE USC TROUBLE REPORTING SYSTEM
CANNON, L. W.
JANUARY 19, 1979 THIS PAPER DESCRIBES A TROUBLE REPORTING MECHANISM WHICH WAS DEVELOPED FOR USE BY THE PROCESSOR APPLICATIONS GROUP OF DEPARTMENT 2512.
- UNSU1339 VM/CMS - UNIX FILE TRANSFER FACILITY
NORDEN, R. A.
JANUARY 10, 1979 A FILE TRANSFER FACILITY HAS BEEN IMPLEMENTED WHICH ALLOWS FILES TO BE TRA OVER THE DDD NETWORK BETWEEN ANY UNIX MACHINE WITH APPROPRIATE AUTOMATIC EQUIPMENT AND AT&T'S VM/CMS SYSTEMS AT PISCATAWAY, NEW JERSEY. THIS MEMORA BRIEF GUIDE FOR POTENTIAL USERS.
- UNSU1346 NPTS: TOOLS FOR PROCESSING DATA WITH NAMED FIELDS
ROCHKIND, M. J.
TM 78-4665-1 DECEMBER 1, 1978 THIS MEMO DESCRIBES AN ABSTRACT DATA TYPE, CALLED A PACKET, FOR CONNECTING NAMED-FIELD TOOLS.
- UNSU1442 BANCs FACILITY FOR MERT/UNIX
LICWINKO, J. S.
TM 79-3156-7 APRIL 11, 1979 THIS DOCUMENT DESCRIBES SOFTWARE THAT SUPPORTS CONNECTION OF A MERT/UNIX MACHINE TO A BANCs NETWORK.
- UNSU1443 RECORD HANDLING UNDER MERT/UNIX - THE QUEUE FACILITY
LICWINKO, J. S.
TM 79-3156-4 MAY 25, 1979 THIS DOCUMENT DESCRIBES A RECORD HANDLING FACILITY DEVELOPED FOR MERT/UNIX. IT DESCRIBES THE NEED FOR THIS FACILITY, THE FORMAT OF QUEUES, THE SUBROUTINES, THE INTEGRITY MECHANISMS, THE CHECKPOINT STRATEGY, AND THE UTILITIES. USER DOCUMENTATION IS ATTACHED.
- UNSU1504 USER'S GUIDE TO THE SMAL41 LANGUAGE FOR THE INTEL 8041 MICROPROCESSOR
MILLER, L. E.
TM 79-3231-3 DECEMBER 14, 1979 THIS MEMO IS DESIGNED TO BE BOTH A GUIDE IN THE USE OF SMAL41 AND A REFERENCE MANUAL FOR THE LANGUAGE AS IT APPLIES TO THE INTEL 8041 MICROPROCESSOR.
- UNSU1517 USE OF SLISTS IN A DEVELOPMENT ENVIRONMENT
WENDT, T. A.
TM 80-3168-1 JANUARY 23, 1980 AN SLIST IS FILE WHICH SPECIFIES REVISION LEVELS FOR SCCS FILES. THIS MEMORANDUM PRESENTS A DEVELOPMENT ENVIRONMENT BUILT ON THE USE OF SCCS, ENHANCED SCCS TOOLS, AND SLISTS.
- UNSU1540 LIMBO - AN ARCHIVE FACILITY FOR UNIX FILES ON IBM MASS STORAGE
FELTS, S. D. - TROESTER, R.
TM 80-9383-1 APRIL 3, 1980 THIS MEMORANDUM DESCRIBES THE DESIGN OBJECTIVES, THE IMPLEMENTATION, AND THE USE OF THE LIMBO COMMANDS, AND SUMMARIZES THE INSTALLATION REQUIREMENTS.
- UNSU1545 KERNEL PROFILING FOR UNIX SYSTEMS ON THE VAX-11
REISER, J. F.
TM 80-1353-3 MARCH 11, 1980 THIS PAPER DESCRIBES A LOW-COST TECHNIQUE FOR CONSTRUCTING AN ACCURATE PROFILE FOR THE SYSTEM KERNEL OF A UNIX-BASED OPERATING SYSTEM RUNNING ON THE VAX-11 COMPUTER.
- UNSU1546 PROGRAM PROFILING UNDER MERT USING A DEC KW11-P CLOCK
ISMAN, M. A.
TM 80-3121-3 FEBRUARY 20, 1980 A SET OF PROGRAMS HAVE BEEN WRITTEN WHICH PERMIT THE PROFILING OF A PROGRAM OR A SET OF PROGRAMS AT A RESOLUTION COMPLETELY INDEPENDENT OF THE CLOCK SYSTEM. THIS PROFILING SYSTEM CAN BE USED TO GATHER STATISTICS ABOUT THE PERFORMANCE OF A USER LEVEL PROGRAM, A SUPERVISORY PROCESS RUNNING ON BEHALF OF A USER PROGRAM, AND THE OPERATING SYSTEM ITSELF.
- UNSU1565 VSORT RATIONALE
LINDERMAN, JOHN P.
TM 80-3833-7 JUNE 26, 1980 THESE NOTES EXPOSE SOME OF THE PROBLEMS WITH THE UNIX SYSTEM SORT AND DESCRIBE THE VSORT ROUTINE WRITTEN BY THE AUTHOR TO CIRCUMVENT THE PROBLEMS.
- UNSU1577 UNIX DISK FORMATTER FOR DEC RPOB PACKS (RPOBMT)
MCPHERSON, A. F.
TM 80-3844-4 JULY 16, 1980 A LOCAL FORMATTER HAS BEEN WRITTEN FOR DEC TYPE RPOB PACKS WHICH GIVES DETAILED INFORMATION ON THE STATUS OF ALL ERRORS ENCOUNTERED WHEN FORMATTING THE PACK. THE PROGRAM IS WRITTEN IN C TO PROVIDE EASY MAINTAINABILITY AND ADAPTABILITY OTHER TYPES OF DISKS. THE DESIGN AND OPERATION OF THE FORMATTER ARE DISCUSSED IN DETAIL, AND SAMPLE FORMATTING SEQUENCES ARE GIVEN.

"UNSU - SERVICE AND UTILITY PROGRAMS"

- UNSU1578 A RECORD INPUT/OUTPUT SYSTEM
 , A. C. TING - TING, O. W.
 TM 80-3162-1, TM 80-3121-6 AUGUST 8, 1980 IN THIS MEMO WE DESCRIBE A UNIX COMMAND AND A SET OF
 LIBRARY ROUTINES WHICH ALLOW USERS TO MANIPULATE EXISTING FIELDDED RECORD FILES INDEPENDENT OF THEIR
 FORMATS. THE DIFFERENCES BETWEEN THIS SYSTEM AND OTHERS ARE DISCUSSED.
- UNSU1587 CIRCULARLY CONNECTED PROCESS PIPELINES
 BONANNI, L. E. - WONG, H.
 TM 80-3781-13 AUGUST 14, 1980 THIS MEMORANDUM GIVES SOME EXAMPLES OF USAGE AND DISCUSSES FEEDBACK, A
 SIM COMMAND THAT CREATES CIRCULAR CONNECTIONS.
- UNSU1601 ELECTRONIC MAIL WITHOUT ALIASES
 ELLIOTT, R. JANE - LESK, MICHAEL
 TM 80-1273-7, TM 80-1274-11 SEPTEMBER 30, 1980 ELECTRONIC MAIL AT BELL LABS IS USUALLY ROUTED TO A
 SYSTEM AND A USER-ID. THERE ARE NOW OVER 100 BTL UNIX SYSTEM CONNECTED BY THE UUCP NETWORK, AND IT IS
 MORE AND MORE OF A NUISANCE TO REMEMBER WHERE YOUR CORRESPONDENTS LOG IN AND WHAT USER-ID THEY USE.
 THE NEW UTILITY POST LOCKS UP THE REAL NAMES OF PEOPLE IN A DATABASE OF BTL UNIX USERS, AND SENDS
 MAIL APPROPRIATELY.
- UNSU1602 A RECORD SELECTION PROGRAM
 EPSTEIN, J. J.
 TM 80-3168-1 SEPTEMBER 23, 1980 THIS MEMO DESCRIBES A UNIX COMMAND THAT ALLOWS USERS TO SELECT
 RECORDS FROM EXISTING FIELDDED RECORD FILES INDEPENDENT OF THEIR FORMATS.
- UNSU1603 A PROGRAM PACKAGE FOR UNIX TO NON-UNIX INTERACTION
 MAYER, W. J.
 DECEMBER 9, 1980
- UNSU1609 INTRODUCING MFSG, A C PROGRAM THAT FACILITATES THE DEFINITION OF MFS SCREENS
 , T. C. KWONG JR.
 TM 80-9432-1 JULY 5, 1980 THIS MEMORANDUM DESCRIBES THE FACILITIES PROVIDED BY MFSG WITH SOME
 SIMPLIFICATION AND IS INTENDED FOR THE CASUAL READER. THE MEMORANDUM CONSTITUTES THE USER'S MANUAL
 FOR MFSG AND PRESUPPOSES BASIC UNIX AND MFS KNOWLEDGE.
- UNSU1610 THE AIDSTS TEST UTILITY ON VAX-11/780 UNIX
 COPLIEN, J. O.
 AUGUST 18, 1980 THIS USER'S MANUAL SERVES AS A TUTORIAL AND REFERENCE MANUAL FOR THE AIDSTS UTILITY
 UNDER VAX-11/780 UNIX.
- UNSU1611 A SIMULATOR FOR THE DATASPEED 40/4 TERMINAL ON THE HP264X
 LEVENBERG, R. A.
 TM 80-9338-1 NOVEMBER 6, 1980 THIS MEMORANDUM DISCUSSES A PACKAGE WHICH, WHEN LINK-EDITED WITH
 USER-SUPP OBJECT FILES, SIMULATES A TELETYPE CORPORATION DATASPEED 40/4 TERMINAL WIT DISPLAY
 FORMATTING ON A HEWLETT-PACKARD 2645, 2640, OR 2621 TERMINAL. THE PACKAGE IS WRITTEN IN 'C' AND RUNS
 UNDER UNIX 3.0 ON A VAX 11/780.
- UNSU1612 Z80 SOFTWARE DEVELOPMENT TOOLS USER'S MANUAL EDITION 3.1
 LOUDEN, T. M.
 TM 80-3495-1 NOVEMBER 19, 1980 THIS DOCUMENT IS INTENDED TO PROVIDE A SINGLE SOURCE TO MUCH OF THE
 INFORMATION NEED BY DEVELOPERS USING THE Z80 SOFTWARE DEVELOPMENT TOOLS.
- UNSU1613 CHANGE MANAGEMENT SYSTEM DESIGN AND PHILOSOPHY
 STORM, N. E.
 TM 80-3674-2 DECEMBER 15, 1980 THE MODIFICATION REQUEST (MR) MANAGEMENT MODULE OF THE CHANGE
 MANAGEMENT FACILITIES (CMP) IS DESCRIBED IN THIS DOCUMENT. THE STANDARD SYSTEM, OPTIONS AVAILABLE TO
 THE USER AND THE CHANGE MANAGEMENT PHILOSOPHY ARE ALSO PRESENTED. THE SYSTEM CAN SUPPORT MULTI-USER
 INTERACTIVE UPDATING AND HAS A POWERFUL REPORTING FACILITY.
- UNSU1614 CHANGE MANAGEMENT AUTOMATIC SCCS SIMPLE INTERFACE (CASSI)
 STORM, N. E.
 TM 80-3674-3 DECEMBER 16, 1980 A SIMPLE INTERFACE IS DESCRIBED WHICH ALLOWS SOURCE TO ONLY BE
 MODIFIED IN RESPONSE TO APPROVED MRS AND AUTOMATICALLY UPDATES THE MR DATA BASE WHEN SOURCE CHANGES
 ARE COMPLETE.
- UNSU1631 THE UNIX CIRCUIT DESIGN SYSTEM
 BOURNE, S. R.
 TM 80-1355-3 DECEMBER 21, 1980 THE UNIX CIRCUIT DESIGN SYSTEM COMPRISES A SET OF PROGRAMS THAT
 ENABLE DIGITAL SYSTEMS TO BE DESIGNED, ANALYZED AND CONSTRUCTED.
- UNSU1633 RESPONSE TO PSCK ERROR CONDITIONS IN UNIX
 MADOR, M. P.
 FEBRUARY 6, 1981 THE FILE SYSTEM CHECK PROGRAM (PSCK) IS AN INVALUABLE TOOL FOR CHECKING AND
 REPAIRING A FILE SYSTEM. IT REPORTS VARIOUS ERROR CONDITIONS AND SOLICITS A RESPONSE IN MOST CASES.
 THIS MEMO IDENTIFIES ALL THE ERROR CONDITIONS THAT REQUIRE A RESPONSE AND SPECIFIES THE PROPER
 ACTION.
- UNSU1635 DIRECTORY ASSISTANCE FOR UUCP
 GRAMPP, F. T. + KOENIG, A. - RITCHIE, D. M.
 MARCH 18, 1980
- UNSU1641 CTRACE AND LTRACE - C AND LEX PROGRAM DEBUGGING TOOLS
 STEFFEN, J. L.
 FEBRUARY 16, 1981
- UNSU1642 A C ROUTINE FOR FILE NAME GENERATION
 ARNOLD, J. Q.
 TM 81-45162-2 FEBRUARY 13, 1981 THIS DOCUMENT DESCRIBES A C ROUTINE, META, THAT GENERATES FILE
 NAMES.
- UNSU1648 THE IMPLEMENTATION OF THE LP SPOOLING SYSTEM
 KLISCHMAN, J. R.
 TM 80-3874-1 NOVEMBER 21, 1980 LP IS A SYSTEM OF COMMANDS WHICH PERFORMS DIVERSE SPOOLING FUNCTIONS
 UNDER THE UNIX OPERATING SYSTEM. THIS MEMO DESCRIBES THE IMPLEMENTATION OF LP AND SUGGESTS HOW IT
 CAN BE USED AS A GENERAL PURPOSE SPOOLER.

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- UNSU1668 UNIX B-TREES
WEINBERGER, P. J.
TM 81-11272-1 JANUARY 2, 1981 THIS MEMO CONTAINS DESCRIPTIONS OF SUBROUTINES AND COMMANDS FOR CREATING AND MAINTAINING B-TREES, AND A COMPLETE EXAMPLE OF THEIR USE IN A DATA BASE WITH TWO FILES.
- UNSU1669 LP ADMINISTRATOR'S GUIDE
KLIEMAN, J. R.
TM 81-48174-1 FEBRUARY 20, 1981 THIS MEMO DESCRIBES THE ROLE OF AN LP ADMINISTRATOR (LPA) IN PERFORMING RESTRICTED FUNCTIONS AND OVERSEEING THE SMOOTH OPERATION OF LP.
- UNSU1670 OVERLAYS IN A UNIX ENVIRONMENT
FOWLER, GLENN
TM 80-2426-1 AUGUST 20, 1980 THE IMPLEMENTATION AND USE OF SEGMENTED OVERLAY PROGRAMS FOR UNIX RUNNING ON POP-11 SERIES COMPUTERS IS DISCUSSED.
- UNSU1671 A C-PROGRAM TO AUTOMATICALLY GENERATE JCL COMMENTS FOR DATA EMBEDDED IN A JOB STREAM
KERR, F. X.
TM 81-59251-1 MARCH 10, 1981 A C-PROGRAM IS DESCRIBED WHICH CAUSES DATA CARDS IN A JCL INPUT STREAM TO BE PRINTED IN THE FINAL IBM JCL LISTING. THE USE OF THIS PROGRAM HAS HELPED TO DOCUMENT, AUTOMATICALLY, THE INPUT TO BATCH PROGRAMS UNDERGOING SYSTEM TEST WHERE THE JCL IS PREPARED IN A UNIX ENVIRONMENT AND SENT TO AN IBM ENVIRONMENT.
- UNSU1672 A GENERALIZED SOFTWARE DEVELOPMENT SUPPORT LIBRARY FOR UNIX
DALRYMPLE, F. L.
TM 80-3683-2 SEPTEMBER 30, 1980 THIS DOCUMENT GIVES AN OVERVIEW OF THE FUNCTIONALITY OF THE DSL, AND A TUTORIAL ON ITS MOST COMMONLY USED FEATURES. A COMPANION DOCUMENT UNPL 1673, "IMPLEMENTATION OF A DEVELOPMENT SUPPORT LIBRARY", BY F. L. DALRYMPLE) DESCRIBES AN IMPLEMENTATION OF A DSL AND SUGGESTS MAINTENANCE PROCEDURES.
- UNSU1673 IMPLEMENTATION OF A DEVELOPMENT SUPPORT LIBRARY FOR UNIX
DALRYMPLE, F. L.
TM 80-3683-3 DECEMBER 21, 1980 THE GOAL OF THIS DOCUMENT IS TO DESCRIBE ONE IMPLEMENTATION OF THE DSL (FOR THE UNIX COMMANDS AND TEXT SOFTWARE DEVELOPMENT GROUP OF DEPARTMENT 3683) SO THAT OTHERS MAY IMPLEMENT THEIR OWN, AND SO THAT THIS IMPLEMENTATION MAY BE UNDERSTOOD AND MODIFIED.
- UNSU1674 FILE TRANSFERS FOR MOTIS: TSS-UNIX-HARRIS
VERBINSKI, C. A.
APRIL 8, 1981 THIS PAPER DESCRIBES HOW THE USER CAN CONDUCT FILE TRANSFERS WITHOUT DEALING WITH THE JOB CONTROL LANGUAGES (JCL) AND COMMUNICATION PROTOCOLS OF THE REMOTE SYSTEMS.
- UNSU1675 A851 - AN INTEL 8081 CROSS ASSEMBLER
MULROONEY, T. J.
TM 81-52211-3 APRIL 17, 1981 THIS REPORT DESCRIBES THE OPERATION OF AN INTEL 8081 ASSEMBLER.
- UNSU1676 TRANS: A FACILITY TO TRANSFER FILES BETWEEN UNIX AND DECSYSTEM-10 OR UNIX AND VM/CMS
MANISCHEWITZ, S. S.
TM 81-59321-2 APRIL 24, 1981 THIS MEMO IS A DETAILED IMPLEMENTATION DESCRIPTION OF THE FACILITY AS WELL AS A GUIDE FOR POTENTIAL USERS.
- UNSU1732 ADDITIONS TO THE USEND SOFTWARE
ARNOLD, S. L.
TM 81-54533-10 JULY 22, 1981 ALTHOUGH USEND, A FACILITY THAT PROVIDES A FILE TRANSFER BETWEEN UNIX SYST IS ESSENTIALLY COMPLETE AS DELIVERED, THERE IS ROOM FOR IMPROVEMENT. THE RATIONALE FOR EACH CHANGE IS PRESENTED AND MANUAL PAGES ARE INCLUDED.

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	TYPESETTING ACS AND APS MEETING ABSTRACTS - ISSUE 2	UNED1075
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	CRAFT ACCESS SYSTEM SOFTWARE STANDARDS	UNSA1366
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	A RECORD MANAGER FOR RANDOM ACCESS TO VARIABLE LENGTH RECORDS UNDER UNIX.	UNSU1171
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	SE - A STRUCTURE EDITOR PROGRAM FOR ACCESSING C PROGRAM STRUCTURES	UNPL1468
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	M2 ADMINISTRATOR'S PROGRAMMING MANUAL	UNSA1525
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