

HG-UNSD-1

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SUBJECT MATCH UNSD



Bell Laboratories

subject: UNIX Documentation
on Microfiche

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MEMORANDUM FOR FILE

The UNIX Operating System Generic Program documentation, PG-1C300 Issue 1, is now available on microfiche. The microfiche cards are approximately 4 by 6 inches and contain up to 63 negative microimages arranged in seven rows lettered A to G and nine columns numbered 1 to 9. Each microimage is a 24X reduction of a 14 by 11 inch page. The last frame of each card, G9, is reserved for an index to the documents on that card. The entire set of documents in PG-1C300 Issue 1 is contained on a set of 51 microfiche cards. The first card contains the Program Generic Index and an alphabetic index. The remaining 50 cards contain program listing documents (PR's). Each PR group is on a separate card or series of cards. Although this choice entails some wasted space, it makes updating and indexing significantly easier. The first frame of each card containing program listings is the standard Bell System Pident

Index Sheet. Standard Bell System documentation refers to program units in terms of pidents. In UNIX, such units are usually files. In an effort to minimize confusion, UNIX files were converted to pidents on a one-to-one basis. Pident names are slightly different than the standard UNIX

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file names. As a general rule, the pident name can be obtained from the file name by dropping the last two characters and appending "01". For example, the file alloc.c becomes pident alloc01 . Occasionally two filenames map onto the same pident name. This difficulty can usually be

resolved by examining the titles as given in the indexes. The alphabetical pident index (see Attachment A) contains four fields for each pident: name, directory, PR number and title. The name identifies the unit while the title is a short description. The directory listed is the name of the directory that will be used for the source file reorganization. The program listings are numbered PR-1C300-01 to PR-1C340-01. In the index these are abbreviated to the numbers 300 to 340. The listing for a particular pident is found by using the alphabetical index to find out which PR group it belongs to. Once the PR is known the index in frame G9 of the card (or series of cards) containing that PR is used to locate the starting frame of that pident. Each microfiche index (see Attachment B for an example) lists the contents of that microfiche giving the starting frame and

the length of each item. The following microfiche readers have adequate screen sizes and are considered acceptable for Bell System use:

<u>READER</u>	<u>SCREEN</u>	<u>PRICE</u>
National Cash Register		
NCR 456-200	12 x 15	\$255
Micro Design Inc.		
COM 200	11 x 15	\$212
COM 400	11 x 15	\$216

Copies of the UNIX Operating System Program Generic documents may be obtained on microfiche from the Computing Information Library. Paper copies of these documents may be obtained from Engineering Records. This is the first time UNIX documents have been distributed via microfiche. If the results are favorable, more documents will be made available on microfiche.

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Attachment A

Alphabetical Pident Index

UNIX Operating System Generic Program Issue 1

PIDENT INDEX
UNIX OPERATING SYSTEM GENERIC PROGRAM PG-1C300 ISSUE 1

PIDENT	DIRECTORY PR	PIDENT TITLE	PIDENT	DIRECTORY PR	PIDENT TITLE
ABORT01	CSUB1	STOP PROCESS	C0101	CC	PASS 1 PART 1 C COMPILER
ABS01	FCMATH	ABSOLUTE FORTRAN FUNCTION	C0201	CC	PASS 1 PART 2 C COMPILER
AC01	CMD1	LOGIN ACCOUNTING	C0301	CC	PASS 1 PART 3 C COMPILER
AINAG01	FCMATH	IMAGINARY FORTRAN FUNCTION	C0401	CC	PASS 1 PART 4 C COMPILER
AINT01	FCMATH	INTEGER FORTRAN FUNCTION	C0H01	CC	PASS 1 HEADER FILE C COMPILER
ALOC01	OPSYS	DISK ALLOCATOR	C0T01	CC	PASS 1 C COMPILER TABLES
ALOC01	CSUB1	CORE ALLOCATOR	C1001	CC	PASS 2 PART 0 C COMPILER
ALOG01	FCMATH	LOGARITHM FORTRAN FUNCTION	C1101	CC	PASS 2 PART 1 C COMPILER
ALOG101	FCMATH	LOGARITHM PASS 2 FORTRAN FUNCTION	C1201	CC	PASS 2 PART 2 C COMPILER
AMAX001	FCMATH	MAXIMUM PART 1 FORTRAN FUNCTION	C1H01	CC	PASS 2 HEADER FILE C COMPILER
AMAX101	FCMATH	MAXIMUM PART 2 FORTRAN FUNCTION	C1T01	CC	PASS 2 C COMPILER TABLES
AMIN001	FCMATH	MINIMUM PART 1 FORTRAN FUNCTION	CABS01	FCFUNG	ABSOLUTE FORTRAN FUNCTION
AMIN101	FCMATH	MINIMUM PART 2 FORTRAN FUNCTION	CAL01	CMD1	PRINT CALENDAR
AMOD01	FCMATH	MODULO FORTRAN FUNCTION	CAT01	IO1	PHOTOTYPESETTER INTERFACE
AR01	CMD1	ARCHIVE AND LIBRARY MAINTAINER	CAT01	CMD1	CONCATENATE AND PRINT
AS1101	AS	PASS 1 PART 1 ASSEMBLER	CC01	CMD1	C COMPILER
AS1201	AS	PASS 1 PART 2 ASSEMBLER	CCOS01	FCFUNG	COSINE FORTRAN FUNCTION
AS1301	AS	PASS 1 PART 3 ASSEMBLER	CCTAB01	CC	C TABLES - SET CONDITION CODES
AS1401	AS	PASS 1 PART 4 ASSEMBLER	CDB01	CMD1	C DEBUGGER
AS1501	AS	PASS 1 PART 5 ASSEMBLER	CCEXP01	FCFUNG	EXPONENTIAL FORTRAN FUNCTION
AS1601	AS	PASS 1 PART 6 ASSEMBLER	CHDIR01	CSUB1	CHANGE WORKING DIRECTORY
AS1701	AS	PASS 1 PART 7 ASSEMBLER	CHECK01	CMD1	CHECK FILE SYSTEM CONSISTENCY
AS1801	AS	PASS 1 PART 8 ASSEMBLER	CHMOD01	CMD1	CHANGE MODE
AS1901	AS	PASS 1 PART 9 ASSEMBLER	CHMOD01	CSUB1	CHANGE MODE OF FILE
AS2101	AS	PASS 2 PART 1 ASSEMBLER	CHOWN01	CMD1	CHANGE OWNER
AS2201	AS	PASS 2 PART 2 ASSEMBLER	CHOWN01	CSUB1	CHANGE OWNER OF FILE
AS2301	AS	PASS 2 PART 3 ASSEMBLER	CLOCK01	OPSYS	SYSTEM CLOCK
AS2401	AS	PASS 2 PART 4 ASSEMBLER	CLOG01	FCFUNG	LOGERITHUM FORTRAN FUNCTION
AS2501	AS	PASS 2 PART 5 ASSEMBLER	CLOSE01	CSUB1	CLOSE A FILE
AS2601	AS	PASS 2 PART 6 ASSEMBLER	CLR101	CMD1	CLEAR I-NODE
AS2701	AS	PASS 2 PART 7 ASSEMBLER	CLM01	CMD1	COMPARE TWO FILES
AS2801	AS	PASS 2 PART 8 ASSEMBLER	CMPX01	FCFUNG	COMPLEX FORTRAN FUNCTION
AS2901	AS	PASS 2 PART 9 ASSEMBLER	COM01	CMD1	PRINT LINES COMMON TO TWO FILES
ATAN01	ASSUB1	ARC TANGENT FUNCTION	COMPAR01	ASSUB1	COMPARE
ATAN01	CSUB1	ARC TANGENT FUNCTION PASS 1	CONF01	HEAD	SYSTEM CONFIGURATION HEADER
ATAN01	FCMATH	ARC TANGENT FORTRAN FUNCTION	CONJG01	FCFUNG	CONJUGATE FORTRAN FUNCTION
ATAN201	CSUB1	ARC TANGENT FUNCTION PASS 2	COS01	CSUB1	COSINE FUNCTION
ATAN201	FCMATH	ARC TANGENT 2 - ARGUMENT	COS01	FCFUNG	COSINE FORTRAN FUNCTION
ATOF01	ASSUB1	FORTRAN FUNCTION	CP01	CMD1	COPY
ATOF01	CSUB1	ASCII TO FLOATING	CRAND01	CSUB1	RANDOM NUMBER GENERATOR FOR C
ATOI01	ASSUB1	ASCII TO INTEGER	CREAT01	CSUB1	CREATE A NEW FILE
BAS001	BAS	PART 0 BASIC	CRT001	CSUB1	USER STARTUP PROGRAM
BAS101	BAS	PART 1 BASIC	CRYPT01	ASSUB1	PASSWORD ENCODING
BAS201	BAS	PART 2 BASIC	CRYPT01	CSUB1	PASSWORD ENCODING
BAS301	BAS	PART 3 BASIC	CSIN01	FCFUNG	SINE FORTRAN FUNCTION
BAS401	BAS	PART 4 BASIC	CSQRT01	FCFUNG	SQUARE ROOT FORTRAN FUNCTION
BAS501	BAS	PART 5 BASIC	CTIME01	ASSUB1	CONVERT DATE AND TIME TO ASCII
BASX01	BAS	PART 6 BASIC	CTIME01	FCRT2	TIME OF DAY FORTRAN
BIO01	IO1	BLOCK I/O	CVOPT01	CC	C CODE TABLE GENERATOR
BUF01	HEAD	SYSTEM BUFFER HEADER	DATE01	CMD2	PRINT AND SET THE DATE
C0001	CC	PASS 1 PART 0 C COMPILER	DB101	DB	PART 1 DEBUG
			DB201	DB	PART 2 DEBUG
			DB301	DB	PART 3 DEBUG

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PIDENT	DIRECTORY PR	PIDENT TITLE	PIDENT	DIRECTORY PR	PIDENT TITLE
DB401	DB	PART 4 DEBUG	EXP01	CSUB2	EXPONENTIAL FUNCTION
DBLE01	FCFUNC	DOUBLE FORTRAN FUNCTIONS	EXP01	FCFUNC	EXPONENTIAL FORTRAN FUNCTION
DC01	IO1	DC-11 COMMUNICATIONS INTERFACE	F1101	FC1	PASS 1 PART 1 FORTRAN COMPILER
DC101	DCED	PART 1 DESK CALCULATOR	F1201	FC1	PASS 1 PART 2 FORTRAN COMPILER
DC201	DCED	PART 2 DESK CALCULATOR	F1301	FC1	PASS 1 PART 3 FORTRAN COMPILER
DC301	DCED	PART 3 DESK CALCULATOR	F1401	FC1	PASS 1 PART 4 FORTRAN COMPILER
DC401	DCED	PART 4 DESK CALCULATOR	F1501	FC1	PASS 1 PART 5 FORTRAN COMPILER
DC501	DCED	PART 5 DESK CALCULATOR	F1601	FC1	PASS 1 PART 6 FORTRAN COMPILER
DCCOS01	FCFUNC	DBLE. COMP. COSINE FORTRAN FUNCTION	F1701	FC1	PASS 1 PART 7 FORTRAN COMPILER
DCLOG01	FCFUNC	DBLE. COMP. LOGERITHUM FORTRAN FUNCTION	F2101	FC2	PASS 2 PART 1 FORTRAN COMPILER
DCSIN01	FCFUNC	DBLE. COMP. SINE FORTRAN FUNCTION	F2301	FC2	PASS 2 PART 3 FORTRAN COMPILER
DCSQRT01	FCFUNC	DBLE. COMP. SQ.ROOT FORTRAN FUNCTION	F2401	FC2	PASS 2 PART 4 FORTRAN COMPILER
DD01	CMD2	FUNCTION	F3101	FC3	PASS 3 PART 1 FORTRAN COMPILER
DF01	CMD2	CONVERT AND COPY A FILE	F3201	FC3	PASS 3 PART 2 FORTRAN COMPILER
DH01	IO1	DISK FREE	F3301	FC3	PASS 3 PART 3 FORTRAN COMPILER
DHDM01	IO1	DH-11 COMMUNICATIONS	F3401	FC3	PASS 3 PART 4 FORTRAN COMPILER
DHDM01	IO1	MULTIPLEXER	F3501	FC3	PASS 3 PART 5 FORTRAN COMPILER
DHDM01	IO1	FUNCTION	F3601	FC3	PASS 3 PART 6 FORTRAN COMPILER
DIFF01	CMD2	CONVERT AND COPY A FILE	F3701	FC3	PASS 3 PART 7 FORTRAN COMPILER
DIFF201	CMD2	DH-11 COMMUNICATIONS	F3801	FC3	PASS 3 PART 8 FORTRAN COMPILER
DIM01	FCFUNC	FUNCTION	F3901	FC3	PASS 3 PART 9 FORTRAN COMPILER
DIMAG01	FCFUNC	FUNCTION	F4101	FC4	PASS 4 PART 1 FORTRAN COMPILER
DLDR01	UTIL	DHDM MODEM CTL INTERFACE	F4201	FC4	PASS 4 PART 2 FORTRAN COMPILER
DLI01	UTIL	DHDM NULL MODEM CTL INTERFACE	F4301	FC4	PASS 4 PART 3 FORTRAN COMPILER
DN01	IO1	PART 1 - DIFFERENCE	F4401	FC4	PASS 4 PART 4 FORTRAN COMPILER
DP01	IO1	PART 2 - DIFFERENCE	F4501	FC4	PASS 4 PART 5 FORTRAN COMPILER
DPADD01	ASSUB1	POSITIVE DIFFERENCE	F4601	FC4	PASS 4 PART 6 FORTRAN COMPILER
DRA01	IO1	DBLE. IMAGINARY FORTRAN FUNCTION	F4701	FC4	PASS 4 PART 7 FORTRAN COMPILER
DSW01	CMD2	FUNCTION	FACTOR01	CMD2	DISCOVER PRIME FACTORS OF A NUM.
DTF01	UTIL	DEC PAPER TAPE LOADERS	FAKFP01	ASSUB1	FAKE FLOATING POINT INTERPRETER
DU01	CMD2	DEC FORMAT TAPE INTERPRETER	FC01	CMD2	FORTRAN COMPILER
DUMP01	CMD2	DN-11 ACU INTERFACE	FED101	FED	PART 1 EDIT MEM. FOR FORM LETTER
DUP01	CSUB2	DP-11 201 SYNCHRONOUS INTERFACE	FED201	FED	PART 2 EDIT MEM. FOR FORM LETTER
ECHO01	CMD2	DBLE. PRECISION ADD	FED301	FED	PART 3 EDIT MEM. FOR FORM LETTER
ECVT01	ASSUB1	DR-11AA INTERFACE	FFLTPR01	CSUB2	FAKE FLOATING POINT OUTPUT CONVERSION
ECVT01	CSUB2	DELETE INTERACTIVELY	PHD01	FCSUB	COMPILER SUBROUTINES HEADER
ED101	DCED	UNIX DEC TAPE TRACK FORMATTER	FILE01	HEAD	SYSTEM FILE HEADER
ED201	DCED	SUMMARIZE DISK USAGE	FILE01	CMD2	DETERMINE FORMAT OF A FILE
ED301	DCED	INCREMENTAL FILE SYSTEM DUMP	FILSYS01	HEAD	FILE SYSTEM HEADER
EFFTAB01	CC	DUPLICATE AN OPEN FILE	FIND01	CMD2	FILE SYSTEM HEADER
ERRLST01	CSUB2	DESCRIPTOR	OPSYS	OPSYS	FILE I/O
EXECL01	CSUB2	ECHO ARGUMENTS	PCINT	PCINT	FLOAT FORTRAN FUNCTION
EXECV01	CSUB2	OUTPUT CONVERSION	CSUB2	CSUB2	FLOATING POINT TIME OF DAY
EXIT01	CMD2	OUTPUT CONVERSION	CSUB2	CSUB2	FLOATING POINT OUTPUT CONVERSION
EXIT01	CMD2	PART 1 EDITOR	FORK01	CSUB2	SPAWN A NEW PROCESS
EXP01	ASSUB1	PART 2 EDITOR			
		PART 3 EDITOR			
		C CODE TABLES - COMPILE FOR SIDE EFFECTS			
		ERROR LIST			
		CALL SYSTEM IN LIST MODE			
		CALL SYSTEM IN VECTOR MODE			
		TERMINATE COMMAND FILE			
		TERMINATE PROCESS			
		EXPONENTIAL FUNCTION			

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PIDENT	DIRECTORY PR	PIDENT TITLE	PIDENT	DIRECTORY PR	PIDENT TITLE
FORM101	FORM	PART 1 FORM LETTER	GETC01	CSUB3	323 BUFFERED INPUT
FORM201	FORM	PART 2 FORM LETTER	GETCHR01	CSUB3	323 READ CHARACTER
FORM301	FORM	PART 3 FORM LETTER	GETCSW01	CSUB3	323 READ CONSOLE SWITCHES
FORM401	FORM	PART 4 FORM LETTER	GETGID01	CSUB3	323 GET GROUP IDENTIFICATIONS
FORM501	FORM	PART 5 FORM LETTER	GETPW01	CSUB3	323 GET NAME FROM UID
FORM601	FORM	PART 6 FORM LETTER	GETTY01	CMD2	314 SET TYPEWRITER MODE
FP101	FP	PART 1 FLOATING POINT INTERPRETER	GETUID01	CSUB3	323 SET USER IDENTIFICATIONS
FP201	FP	PART 2 FLOATING POINT INTERPRETER	GLOB01	CMD2	314 GENERATE COMMAND ARGUMENTS
FP301	FP	PART 3 FLOATING POINT INTERPRETER	GOTO01	CMD2	314 COMMAND TRANSFER
FP401	FP	PART 4 FLOATING POINT INTERPRETER	GREY01	CMD2	314 SEARCH A FILE FOR A PATTERN
FP501	FP	PART 5 FLOATING POINT INTERPRETER	GTYP01	CSUB3	323 GET
FSSTAT01	CSUB2	GET STATUS OF OPEN FILE	HMUL01	CSUB3	323 HIGH ORDER PRODUCT
FX101	FCSUB	COMPILER SUBROUTINES PART 1	HSW01	CSUB3	323 HASH SWITCH
FX201	FCSUB	FORTAN COMPILER	HYPHEN01	CMD2	314 FIND HYPHENATED WORDS
FX301	FCSUB	COMPILER SUBROUTINES PART 2	HYPOT01	ASSUB2	320 CALCULATE THE HYPOTENUSE
FX401	FCSUB	COMPILER SUBROUTINES PART 3	IABS01	FCINT	338 ABSOLUTE FORTAN FUNCTION
FX501	FCSUB	COMPILER SUBROUTINES PART 4	IDIM01	FCINT	338 POSITIVE DIFFERENCE
FX601	FCSUB	COMPILER SUBROUTINES PART 5	IDINT01	FCINT	338 TRUNCATION
FX701	FCSUB	COMPILER SUBROUTINES PART 6	IERR01	FCINT	338 INTEGER ERROR FORTAN FUNCTION
FX801	FCSUB	COMPILER SUBROUTINES PART 7	IF01	CMD2	314 CONDITIONAL COMMAND
FX901	FCSUB	COMPILER SUBROUTINES PART 8	IFIX01	FCINT	338 FIXED FORTAN FUNCTION
FXA01	FCSUB	COMPILER SUBROUTINES PART 9	IGET01	OPSYS	301 I-NODE INTERFACE
FXB01	FCSUB	COMPILER SUBROUTINES PART 10	INIT01	CMD2	314 PROCESS CONTROL INITIALIZATION
FXC01	FCSUB	COMPILER SUBROUTINES PART 11	INO01	CMD2	314 I-NODE NUMBER
FXD01	FCSUB	COMPILER SUBROUTINES PART 12	INODE01	HEAD	300 I-NODE HEADER
FXE01	FCSUB	COMPILER SUBROUTINES PART 13	IO101	FCIO	334 FORTAN I/O PART 1
FXF01	FCSUB	COMPILER SUBROUTINES PART 14	IO201	FCIO	334 FORTAN I/O PART 2
FXG01	FCSUB	COMPILER SUBROUTINES PART 15	IO301	FCIO	334 FORTAN I/O PART 3
FXH01	FCSUB	COMPILER SUBROUTINES PART 16	IO401	FCIO	334 FORTAN I/O PART 4
FXI01	FCSUB	COMPILER SUBROUTINES PART 17	IO501	FCIO	334 FORTAN I/O PART 5
FXJ01	FCSUB	COMPILER SUBROUTINES PART 18	IO601	FCIO	334 FORTAN I/O PART 6
FXK01	FCSUB	COMPILER SUBROUTINES PART 19	IO701	FCIO	334 FORTAN I/O PART 7
FXL01	FCSUB	COMPILER SUBROUTINES PART 20	IOX01	FCIO	334 FORTAN I/O PART 8
FXM01	FCSUB	COMPILER SUBROUTINES PART 21	ISIGN01	FCINT	338 SIGN FORTAN FUNCTION
FXN01	FCSUB	COMPILER SUBROUTINES PART 22	KILL01	CMD2	314 TERMINATE A PROCESS
FXO01	FCSUB	COMPILER SUBROUTINES PART 23	KILL01	CSUB3	323 TERMINATE A PROCESS
FXP01	FCSUB	COMPILER SUBROUTINES PART 24	KL01	IO1	302 KL-11 OR DL-11 ASYNCHRONOUS INTERFACE
FXQ01	FCSUB	COMPILER SUBROUTINES PART 25	LD101	LD	310 PART 1 LOADER
FXR01	FCSUB	COMPILER SUBROUTINES PART 26	LD201	LD	310 PART 2 LOADER
FXS01	FCSUB	COMPILER SUBROUTINES PART 27	LDIV01	ASSUB2	320 LONG DIVISION
FXT01	FCSUB	COMPILER SUBROUTINES PART 28	LDX01	LD	310 PART 3 LOADER
FXU01	FCSUB	COMPILER SUBROUTINES PART 29	LINK01	CSUB3	323 LINK TO A FILE
FXV01	FCSUB	COMPILER SUBROUTINES PART 30	LIST01	UTIL	340 LIST UTILITY PROGRAMS
FXW01	FCSUB	COMPILER SUBROUTINES PART 31	LN01	CMD2	314 MAKE A LINK
FXX01	FCSUB	COMPILER SUBROUTINES PART 32	LOCV01	CSUB3	323 LONG OUTPUT CONVERSION
FXY01	FCSUB	COMPILER SUBROUTINES PART 33	LOG01	ASSUB2	320 NATURAL LOGERITHM
FXZ01	FCSUB	COMPILER SUBROUTINES PART 34	LOG01	CSUB3	323 LOGARITHM FUNCTION
FXA01	FCSUB	COMPILER SUBROUTINES PART 35	LOGIN01	CMD2	314 SIGN ONTO UNIX
FXB01	FCSUB	COMPILER SUBROUTINES PART 36	LP01	IO1	302 LINE PRINTER INTERFACE
FXC01	FCSUB	COMPILER SUBROUTINES PART 37	LPD01	CMD2	314 LINE PRINTER DAEMON
FXD01	FCSUB	COMPILER SUBROUTINES PART 38	LPD01	CMD2	314 SPOOL FOR LINE PRINTER
FXE01	FCSUB	COMPILER SUBROUTINES PART 39	LS01	CMD2	314 LIST CONTENTS OF A DIRECTORY

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PIDENT	DIRECTORY PR	PIDENT TITLE	PIDENT	DIRECTORY PR	PIDENT TITLE
MAIL01	CMD3	MAIL TO ANOTHER USER	PROF01	CMD4	DISPLAY PROFILE DATA
MAIN01	OPYS	MAIN	PROF01	CSUB5	DISPLAY PROFILE DATA
MAKDIR01	CSUB4	MAKE A DIRECTORY	PS01	CMD4	PROCESS STATUS
MALLOC01	IO2	MEMORY ALLOCATOR	PRX01	CMD4	PERMUTED INDEX
MCOPY01	UTIL	COPY MAG TAPE TO DISK	PUT01	ASSUB2	PUT TO OUTPUT
MCRT001	CSUB4	MONITOR USER STARTUP PROGRAM	PUTC01	CSUB5	BUFFERED OUTPUT
MDATE01	CSUB4	SET MODIFY DATE OF FILE	PUTCHR01	CSUB5	WRITE CHARACTER
MEM01	IO2	CORE MEMORY	PWD01	CMD4	PRINT WORKING DIRECTORY
MESG01	CMD3	PERMIT OR DENY MESSAGES	QSORT01	ASSUB2	QUICKER SORT
MESG01	ASSUB2	PERMIT OR DENY MESSAGES	QSORT01	CSUB5	QUICKER SORT
MKDIR01	CMD3	MAKE A DIRECTORY	R001	FCRT	FORTRAN RUNTIME PART 0
MKFS01	CMD3	MAKE FILE SYSTEM	R101	FCRT	FORTRAN RUNTIME PART 1
MKNOD01	CMD3	MAKE A DIRECTORY OR SPECIAL FILE	R201	FCRT	FORTRAN RUNTIME PART 2
			R301	FCRT	FORTRAN RUNTIME PART 3
MKNOD01	CSUB4	BUILD SPECIAL FILE	R401	FCRT	FORTRAN RUNTIME PART 4
MKPT01	CMD3	MAKE PHOTO	R501	FCRT	FORTRAN RUNTIME PART 5
MOD01	FCINT	MODULO FORTRAN FUNCTION	R601	FCRT	FORTRAN RUNTIME PART 6
MON01	CSUB4	MONITOR	R701	FCRT	FORTRAN RUNTIME PART 7
MOUNT01	CMD3	MOUNT FILE SYSTEM	R801	FCRT	FORTRAN RUNTIME PART 8
MOUNT01	CSUB4	MOUNT FILE SYSTEM	R901	FCRT	FORTRAN RUNTIME PART 9
MSH01	CMD3	MINI-SHELL	RA01	FCRT	FORTRAN RUNTIME PART 10
MV01	CMD3	MOVE OR RENAME A FILE	RAND01	ASSUB2	RANDOM NUMBER GENERATOR
NAM01	OPYS	FILE NAME STRING INTERPRETER	RB01	FCRT	FORTRAN RUNTIME PART 11
NARG01	CSUB4	ARGUMENT COUNT	RC01	FCRT	FORTRAN RUNTIME PART 12
NICE01	CMD3	SET PROGRAM PRIORITY	RD01	FCRT	FORTRAN RUNTIME PART 13
NICE01	CSUB4	SET PROGRAM PRIORITY	RDWR01	OPYS	READ/WRITE I-NODE
NICE01	FCRT2	SET PROGRAM PRIORITY	RE01	FCRT	FORTRAN RUNTIME PART 14
NLIST01	ASSUB2	GET ENTRIES FROM NAME LIST	READ01	FCRT	READ FROM FILE
NLIST01	CSUB4	GET ENTRIES FROM NAME LIST	REAL01	FCINT	REAL NUMBER FORTRAN FUNCTION
NM01	CMD3	PRINT NAME LIST	REG01	HEAD	REGISTER HEADER
NOHUP01	CMD3	RUN A COMMAND IMMUNE TO HANG-UPS	REGTAB01	CC	C TABLES - COMPILER TO REGISTER
			RELOC01	CMD4	RELOCATE OBJECT FILES
OD01	CMD3	OCTAL DUMP	RESET01	CSUB5	ABNORMAL ERROR RETURN
OPEN01	CSUB4	OPEN FILE FOR READING OR WRITING	RESTOR01	CMD4	INCREMENTAL FILE SYSTEM RESTORE
			RETRN01	CSUB5	RETURN TO CALLING LOCATION
OPENRW01	FCRT2	OPEN FOR READ WRITE FORTRAN	REW01	CMD4	REWIND TAPE
OV01	CMD3	OVERLAY	RF01	IO2	RF11/RS11 FIXED HEAD DISK FILE
PARAM01	HEAD	PARAMETER HEADER	RF01	FCRT	FORTRAN RUNTIME PART 15
PARTAB01	IO2	TABLE OF TTY PARAMETERS	RG01	FCRT	FORTRAN RUNTIME PART 16
PASSWD01	CMD4	SET LOGIN PASSWORD	RH01	FCRT	FORTRAN RUNTIME PART 17
PC01	IO2	PC-11 PAPER TAPE READ/PUNCH INTERFACE	RIN01	CSUB5	ASCII TO INTEGER
			RIO01	FCRT2	RANDOM TIME I/O FORTRAN
PERROR01	CSUB5	SYSTEM ERROR MESSAGES	RK01	IO2	RK-11/RK03(05) DISK INTERFACE
PFE01	CMD4	PRINT FLOATING EXCEPTION	RKF01	UTIL	RK FORMATTER
PIPE01	IO2	INTER PROCESS CHANNEL	RM01	CMD4	REMOVE FILES
PIPE01	CSUB5	CREATE AN INTERPROCESS CHANNEL	RMDIR01	CMD4	REMOVE DIRECTORY
PLOT01	FCRT2	PLOT FORTRAN	RP01	IO2	RP-11/RP03 MOVING HEAD DISK INTERFACE
POW01	ASSUB2	FLOATING EXPONENTIATION	RSAVE01	CSUB5	REGISTER SAVE
POW01	CSUB5	FLOATING EXPONENTIATION	RX01	FCRT	FORTRAN RUNTIME PART 18
PR01	CMD4	PRINT FILE	SA01	CMD5	SHELL ACCOUNTING
PRF01	OPYS	PRINT FACILITY	SBRK01	CSUB6	INCREMENT MORE CORE
PRINTF01	CSUB5	FORMATTED PRINT	SEEK01	CSUB6	MOVE READ/WRITE POINTER
PROC01	HEAD	PROCESS HEADER			

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PIDENT	DIRECTORY PR	PIDENT TITLE	PIDENT	DIRECTORY PR	PIDENT TITLE
SEG01	HEAD	SEGMENTATION HEADER	TIMES01	CSUB7	GET PROCESS TIMES
SETFIL01	FCRT2	SPECIFY FORTRAN FILE NAME	TIU01	IO2	SPIDER INTERFACE
SETGID01	CSUB6	SET GROUP IDENTIFICATION	TM01	IO2	TM-11/TU-10 MAG. TAPE INTERFACE
SETUID01	CSUB6	SET USER IDENTIFICATION	TP101	TP	PART 1 DEC/MAG TAPE
SH01	CMD5	SHELL (COMMAND INTERPRETER)	TP201	TP	MANIPULATION
SIG01	OPSYS	SIGNAL	TP301	TP	PART 2 DEC/MAG TAPE
SIGN01	FCINT	SIGN FORTRAN FUNCTION	TP401	TP	MANIPULATION
SIGNAL01	CSUB6	CATCH OR IGNORE SIGNALS	TR01	CMD6	TRANSLITERATE
SIN01	ASSUB2	SINE AND COSINE FUNCTIONS	TRAP01	OPSYS	TRAP HANDLER
SIN01	CSUB6	SINE AND COSINE FUNCTIONS	TTY01	HEAD	TYPEWRITER HEADER
SIN01	FCINT	SINE FORTRAN FUNCTION	TTY01	IO2	GENERAL TYPEWRITER SUBROUTINES
SIZE01	CMD5	SIZE OF AN OBJECT FILE	TTY01	CMD6	GET TYPEWRITER NAME
SLEEP01	CMD5	SUSPEND EXECUTION FOR AN INTERVAL	TTYN01	ASSUB2	RETURN NAME OF CURRENT TYPEWRITER
SLEEP01	CMD5	STOP EXECUTION FOR AN INTERVAL	TYPO01	CMD6	FIND POSSIBLE TYPPOS
SLP01	OPSYS	PROCESS SWITCHING	UBOOT01	UTIL	UNIX BOOT
SNGL01	FCINT	SINGLE FORTRAN FUNCTION	UMOUNT01	CMD6	DISMOUNT FILE SYSTEM
SNSTAT01	CSUB6	C INTERFACE TO SPIDER STATUS CALL	UMOUNT01	CSUB7	DISMOUNT A FILE SYSTEM
SORT01	CMD5	SORT OR MERGE FILES	UNI001	CMD6	REPORT REPEATED LINES IN A FILE
SPLIT01	CMD5	SPLIT A FILE INTO PIECES	UNLINK01	CSUB7	REMOVE DIRECTORY ENTRY
SPTAB01	CC	C TABLES -EXPRESSION TO STACK	UPDATE01	CMD6	PERIODICALLY UPDATE THE SUPER BLOCK
SQRT01	ASSUB2	SQUARE ROOT FUNCTION	USER01	HEAD	USER FILE HEADER
SQRT01	CSUB6	SQUARE ROOT FUNCTION	VS01	IO2	VOICE SYNTHESIZER INTERFACE
SQRT01	FCINT	SQUARE ROOT FORTRAN FUNCTION	VT01	IO2	11/20 (VT01) INTERFACE
SSW01	CSUB6	SIMPLE SWITCH	WAIT01	CSUB7	WAIT FOR A PROCESS TO TERMINATE
STAT01	CSUB6	GET FILE STATUS	WC01	CMD6	WORD COUNT
TIME01	CSUB6	SET TIME OF DAY	WHO01	CMD6	WHO IS ON THE SYSTEM
STRIP01	CMD5	REMOVE SYMBOLS AND RELOCATION B	WRITE01	CMD6	WRITE TO ANOTHER USER
STTY01	CMD5	SET TYPEWRITER OPTIONS	WRITE01	CSUB7	WRITE ON A FILE
STTY01	CSUB6	SET TYPEWRITER OPTIONS			
SU01	CMD5	BECOME PRIVILEGED USER			
SUBR01	OPSYS	SYSTEM SUBROUTINES			
SUM01	CMD5	SUM A FILE			
SUM01	FCRT2	SUM FORTRAN FUNCTION			
SWITCH01	ASSUB2	SWITCH			
SWITCH01	CSUB6	OLD SWITCH STATEMENT			
SYNC01	CMD5	UPDATE SUPER BLOCK			
SYNC01	CSUB6	UPDATE THE SUPER BLOCK			
SYS101	OPSYS	SYSTEM ROUTINES PART 1			
SYS201	OPSYS	SYSTEM ROUTINES PART 2			
SYS301	OPSYS	SYSTEM ROUTINES PART 3			
SYS401	OPSYS	SYSTEM ROUTINES PART 4			
SYSENT01	OPSYS	TABLE OF SYSTEM ENTRY POINTS			
SYSTEM01	HEAD	SYSTEM HEADER			
TANH01	FCINT	HYPERBOLIC TANGENT FORTRAN FUNCTION			
TBOOT01	UTIL	DEC TAPE BOOT SOURCE			
TC01	IO2	TC-11/TU56 DEC TAPE INTERFACE			
TEXT01	HEAD	TEXT HEADER			
TEXT01	OPSYS	SHARED PROGRAM			
TIME01	CMD6	TIME A COMMAND			
TIME01	CSUB7	GET DATE AND TIME			

Attachment B

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MICROFICHE INDEX

HEADER FILES

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ISSUE 1

PIDENT	ISSUE	FRAME	PAGES	TITLE
BUF01	1	A2	2	SYSTEM BUFFER HEADER
CONF01	1	A4	1	SYSTEM CONFIGURATION HEADER
FILE01	1	A5	1	SYSTEM FILE HEADER
FILSYS01	1	A6	1	FILE SYSTEM HEADER
INODE01	1	A7	2	I-NODE HEADER
PARAM01	1	A9	2	PARAMETER HEADER
PROC01	1	B2	1	PROCESS HEADER
REG01	1	B3	1	REGISTER HEADER
SEG01	1	B4	1	SEGMENTATION HEADER
SYSTEM01	1	B5	1	SYSTEM HEADER
TEXT01	1	B6	1	TEXT HEADER
TTY01	1	B7	2	TYPEWRITER HEADER
USER01	1	B9	2	USER FILE HEADER

TOTAL PAGES = 20