

AT&T System V, Version 2 Development Package



The AT&T System V version 2
Development Package is running under the System V compatible D-NIX system on the complete range of DS90 computers from DataIndustrier DIAB AB. The package includes all basic and advanced utilities, communication and development programs as well as a documenter's workbench which is a set of utilities dedicated to sophisticated text processing.

Shell command interpreter

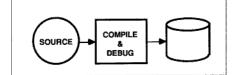
Two command language interpreters, the standard Bourne shell and the Berkely C shell are provided in the system. The shell is an interactive command interpreter that processes commands typed in by the user. Commands are simply executable files that contains either compiled programs or shellscripts written in the native shell programming language. The user can add new commands simply by writing new programs or shell scripts.

Basic capabilities include:

- Executing a program as a command
- Passing the output of one program to another
- Flow control statement (if-then-else and do-while)

- Announce mail arrival
- · Renaming of commands
- Set default parameters

User enter the shell commands to read files, redirect input and output and invoke processes that communicate through software channels or 'pipes'.

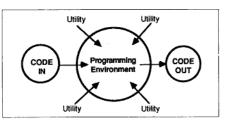


Compilers and debuggers

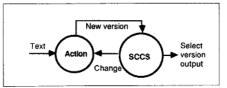
The software package provides C (pcc) language compiler, an assembler (as), and a powerful symbolic debugger (adb). The generated object code is in COFF format, which allows for object compatibility among families of microprocessors.

Program development facilities

Powerful utilities such as lint, prof, and

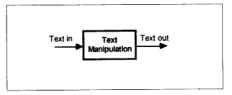


make, help reduce actual programming time. The lint utility identifies parts of a program that deviate from standard programming techniques. prof profiles an application to show where a program is least efficient, and make automates compilation when developing a modular software system. When modifying a program, make reduces both programmer's effort as well as the processing load on a system by examining the overall source and automatically rebuilding and relinking only those parts that are affected by the modification. The advantages of make are even greater in largescale software projects where numerous programmers are involved in its development. The standard directories libc and libm are provided. The package also include over 100 useful utilities making software development much easier.



Source Code Control System

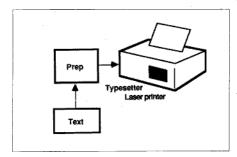
SCCS is an effective tool for managing the coding and maintenance of software development projects. It enforces revision check by archiving, version numbering and time stampling all software and documentation changes. Any version of the software or documentation can be automatically retrieved.



Editors

The software package includes both interactive screen (vi) and line-oriented (ed,ex) editors as well as a variety of batch-oriented tools (grep, sed, sort...) for sophisticated text manipulation.





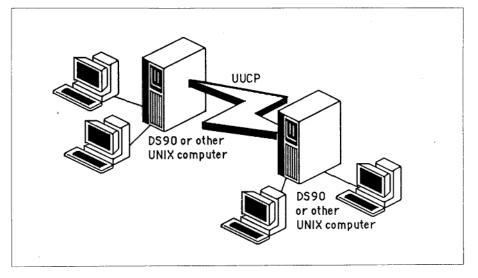
Documenter's workbench

Provides a variety of sophisticated text processing tools that transform text created by the editors into formatted output suitable for printing or photo typesetting. This sophisticated text processing package includes:

- Text processing programs nroff and
- Formatting macros that produce lists, headers, footers, automatic pagination, footnotes, level heading and table of contents.
- Line drawing macros for illustrations
- Mathematical typesetting macros



The software package includes electronic mail facilities for sending messages and documents to other local or networked users. On system running TCP/IP over the Ethernet extension, the mail function is extended over the network.



System activity reporter

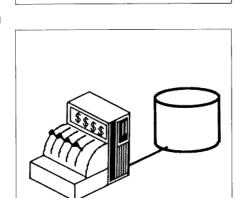
This tool provides automatic measurement and reporting of system-wide activities to aid in fine-tuning the system

Accounting utilities

This set of tools optionally monitors, reports and allocates fees for prime and non-prime time system resource usage.

Remote UNIX communication

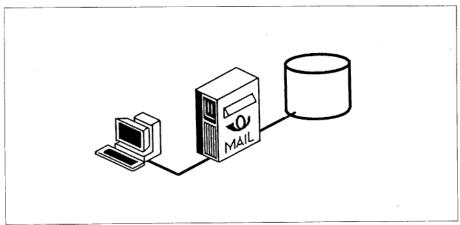
Commands such as cu and uucp allows D-NIX users to log onto or/and transfer files to other systems running UNIX software. Connection can be made either through RS-232C or over an Ethernet or D-NET network.



SYSTEM

ACTIVITY

REPORTER



Commands

The following pages covers a list of the programs included in the software package. The package also includes different types of libraries containing all system call files, etc. The number of programs and files can vary between different releases of the software.

300, 300s 4014 450

accept

acctcms

handles special functions of Dasi 300/300s terminals paginator for Tektronix 4014 terminal handles special functions of Dasi 450 terminal rejects, allows/prevents LP request provides a command summary from accounting

searches and prints acctcomm

records kept on process execution process accounting

accounting for connect acctcon1 time accounting for connect acctcon2 time acctdisk reads and converts accounting records acctdusg computes disk resource consumption merges and adds total acctmerg accounting file turns process accounting accton process accounting acctprc1 process accounting acctprc2

acctwtmp overview of accounting general purpose debugger creates and administrates adb admin SCCS files archive and library ar maintainer converts archive files arcv provides drills in number arithmetic facts assembler

as interprets ASA carriage asa control characters executes commands at a at later time

a	wk	pattern scanning and	date	*prints and sets date	graph	draws a graph from
		processing language	dc	desk calculator	•	supplied pairs of numbers
b	ack	a game	dd	*converts and copies file	greek	a filter that reinterprets the
	anner	creates printer banner	delta	makes a delta to an SCCS		extended characters set
_	asename	*strips filename affixes		file		for a terminal
	basic	#*D-BASIC V interpreter	deroff	removes <i>nroff/troff, tbl</i> and	grep	searches a file for a regular
D	atch	executes command at a	dovnm	eqn constructs	arnek	expression
h	С	later time interactive processor	devnm	associated with the	grpck	system maintenance command
D	·C	providing arbitrary-		mounted file system	hangman	a game
		precision arithmetic	df	*reports number of free	head	gives first few lines of a
b	dblk	bad block utility		disk block		stream
b	diff	big difference allows	diff	differential file comparator	help	finds information to explain
		processing of files too	diff3	compares 3 versions of a		the use of commands
	_	large for diff		file, noting differencies	hp	handles special functions
	fs	big file scanner acts like ed	diffmk	compares two versions of a	bula	of HP 2640 and 2621
þ		a game		file and creates a third that	hpio hyphen	HP 2645A terminal archiver finds hyphenated words
	ootpar rc	#*sets boot parameters system initialization shell		includes commands for nroff/troff	id	print user and group IDs
U	10	script	dircmp	compares two directories		and names
b	s	compiler/interpreter for	dirname	#*print path name	init	processes control
		modest size programs	disable	disables spool/printer		initialization
C	al 🗼	prints a calender	disusg	generates disk accounting	install	installs a file
_	alendar	reminder service		data by user ID	isamchk	*checks isam file
C	ancel	sends/cancels request to	dodisk	invoked by <i>cron</i> to perform	isamin	*init isam file
_		an LP	al	disk accounting	ipcrm	*removes: message
C	at	*concatenates and prints	du	*summarizes disk usage		queue, semaphore set or
С	h	files c-program beautifier	dump	dumps selected parts of an object file	ipcs	*reports inter-process
C		c complier	echo	*echoes arguments	ipos	communication status
c	-	changes working directory	ed	text editor	join	joins files according to a
	dc	changes delta commentary	edit	text editor	,	given relation
		of an SCCS file	egrep	searches files for full	kermit	*file transfer protocol
С	hargefee	charges a fee for an		regular expressions as	kill	*terminates a process
		account to its associated	amabla	given	killall	kills all active processes
_	hookoli	login name	enable	enables/disables LP printers	l labelit	*content of a directory *puts/displays volume
C	heckall	faster file system checking procedure	env	modifies current	labelit	label
c	heckcw	verifies constant width text	City	environment according to	lastlogin	accounting utility
·	conon	formated by cw for troff		arguments	ld	link editor
						III IK GUILOI
C	heckea	verifies mathematical text	eqn	formats mathematical text	lex	
С	heckeq	verifies mathematical text formated by eqn and nqn		formats mathematical text for <i>troff</i>	lex	generates programs to be used in lexical analysis
		verifies mathematical text	eqn errdead	formats mathematical text for <i>troff</i> extracts error records from	lex line	generates programs to be used in lexical analysis read one line
С	hess	verifies mathematical text formated by eqn and nqn for nroff and troff a game	errdead	formats mathematical text for troff extracts error records from dump	lex line link	generates programs to be used in lexical analysis read one line executes link system call
С		verifies mathematical text formated by eqn and nqn for nroff and troff a game changes the root directory	errdead errdeamon	formats mathematical text for troff extracts error records from dump *error-logging deamon	lex line	generates programs to be used in lexical analysis read one line executes link system call a C program checker for
C	hess hroot	verifies mathematical text formated by eqn and nqn for nroff and troff a game changes the root directory for a command	errdead	formats mathematical text for troff extracts error records from dump *error-logging deamon processes data collected	lex line link lint	generates programs to be used in lexical analysis read one line executes link system call a C program checker for likely bugs
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CCC	hess hroot flow hmod	verifies mathematical text formated by eqn and nqn for nroff and troff a game changes the root directory for a command generates C flow graph *changes mode	errdead errdeamon	formats mathematical text for troff extracts error records from dump *error-logging deamon processes data collected by errdeamon terminates the error logging deamon	lex line link lint	generates programs to be used in lexical analysis read one line executes link system call a C program checker for likely bugs *makes a link to a file *sign on to system gets login name
CCCC	hess hroot flow	verifies mathematical text formated by eqn and nqn for nroff and troff a game changes the root directory for a command generates C flow graph *changes mode #*changes group *changes owner or group	errdead errdeamon errpt	formats mathematical text for troff extracts error records from dump *error-logging deamon processes data collected by errdeamon terminates the error logging deamon text editor	lex line link lint lin login	generates programs to be used in lexical analysis read one line executes link system call a C program checker for likely bugs *makes a link to a file *sign on to system gets login name finds ordering relation for
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00000	hess hroot flow hmod hgrp hown kpacct	verifies mathematical text formated by eqn and nqn for nroff and troff a game changes the root directory for a command generates C flow graph *changes mode #*changes group *changes owner or group periodically checks size of the accounting file	errdead errdeamon errpt errstop ex expr	formats mathematical text for troff extracts error records from dump *error-logging deamon processes data collected by errdeamon terminates the error logging deamon text editor *evaluates arguments as an expression	lex line link lint lin login logname	generates programs to be used in lexical analysis read one line executes link system call a C program checker for likely bugs *makes a link to a file *sign on to system gets login name finds ordering relation for an object library sends&cancels request to
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	hess hroot flow hmod hgrp hown kpacct lear lri mp ol omb omb omm	verifies mathematical text formated by eqn and nqn for nroff and troff a game changes the root directory for a command generates C flow graph *changes mode #*changes group *changes owner or group periodically checks size of the accounting file clears terminal screen clears i-node *compares two files filters reverse line-feeds combines SCCS deltas selects or rejects lines common to two sorted files #*groups of files copy *file archives in and out copy *file copy, link or remove UNIX c preprocessor installs object files in	errdead errdeamon errpt errstop ex expr factor false fgrep file finc find finger fish format fortune frec	formats mathematical text for troff extracts error records from dump "error-logging deamon processes data collected by errdeamon terminates the error logging deamon text editor "evaluates arguments as an expression factors a number #"provides truth values searches a file for a fixed string determines file type fast incremental backup "finds files user info lookup program a game "formats disks and disketts a game recovers files from a backup tape	lex line link lint lin login logname lorder lp lpadmin lpd lpr lpsched lpstat ls m4 mail mailx	generates programs to be used in lexical analysis read one line executes link system call a C program checker for likely bugs *makes a link to a file *sign on to system gets login name finds ordering relation for an object library sends&cancels request to an LP printer configures the LP spooling system *printer spooler *line printer spooler starts/stops LP request scheduler prints LP status *lists contents of directory macro processor intended as a front-end for C sends or reads mail interactive message processing system
	hess hroot flow hmod hgrp hown kpacct lear lri mp ol omb omb omm	verifies mathematical text formated by eqn and nqn for nroff and troff a game changes the root directory for a command generates C flow graph *changes mode #*changes group *changes owner or group periodically checks size of the accounting file clears terminal screen clears i-node *compares two files filters reverse line-feeds combines SCCS deltas selects or rejects lines common to two sorted files #*groups of files copy *file archives in and out copy *file copy, link or remove UNIX c preprocessor	errdead errdeamon errpt errstop ex expr factor false fgrep file finc find finger fish format fortune frec fsck	formats mathematical text for troff extracts error records from dump *error-logging deamon processes data collected by errdeamon terminates the error logging deamon text editor *evaluates arguments as an expression factors a number #provides truth values searches a file for a fixed string determines file type fast incremental backup *finds files user info lookup program a game *formats disks and disketts a game recovers files from a backup tape *file check and repair	lex line link lint lin login logname lorder lp lpadmin lpd lpr lpsched lpstat ls m4 mail	generates programs to be used in lexical analysis read one line executes link system call a C program checker for likely bugs *makes a link to a file *sign on to system gets login name finds ordering relation for an object library sends&cancels request to an LP printer configures the LP spooling system *printer spooler *line printer spooler starts/stops LP request scheduler prints LP status *lists contents of directory macro processor intended as a front-end for C sends or reads mail interactive message processing system maintains update and
	hess hroot flow hmod hgrp hown kpacct lear lri mp ol omb omm opy pio	verifies mathematical text formated by eqn and nqn for nroff and troff a game changes the root directory for a command generates C flow graph *changes mode #changes group *changes owner or group periodically checks size of the accounting file clears terminal screen clears i-node *compares two files filters reverse line-feeds combines SCCS deltas selects or rejects lines common to two sorted files #groups of files copy *file archives in and out copy *file copy, link or remove UNIX c preprocessor installs object files in binary directories a game clock deamon.	errdead errdeamon errpt errstop ex expr factor false fgrep file finc find finger fish format fortune frec fsck fscl	formats mathematical text for troff extracts error records from dump *error-logging deamon processes data collected by errdeamon terminates the error logging deamon text editor *evaluates arguments as an expression factors a number #*provides truth values searches a file for a fixed string determines file type fast incremental backup *finds files user info lookup program a game *formats disks and disketts a game recovers files from a backup tape *file check and repair *extended file check	lex line link lint lin login logname lorder lp lpadmin lpd lpr lpsched lpstat ls m4 mail mailx	generates programs to be used in lexical analysis read one line executes link system call a C program checker for likely bugs *makes a link to a file *sign on to system gets login name finds ordering relation for an object library sends&cancels request to an LP printer configures the LP spooling system *printer spooler starts/stops LP request scheduler prints LP status *lists contents of directory macro processor intended as a front-end for C sends or reads mail interactive message processing system maintains update and regenerates groups of
	hess hroot flow hmod hgrp hown kpacct lear lri mp ol omb omb omm opy pio pp pp pset	verifies mathematical text formated by eqn and nqn for nroff and troff a game changes the root directory for a command generates C flow graph *changes mode #changes mode #changes owner or group periodically checks size of the accounting file clears terminal screen clears i-node *compares two files filters reverse line-feeds combines SCCS deltas selects or rejects lines common to two sorted files #groups of files copy *file archives in and out copy *file copy, link or remove UNIX c preprocessor installs object files in binary directories a game clock deamon user crontab file	errdead errdeamon errpt errstop ex expr factor false fgrep file finc find finger fish format fortune frec fsck fscl fsdb	formats mathematical text for troff extracts error records from dump *error-logging deamon processes data collected by errdeamon terminates the error logging deamon text editor *evaluates arguments as an expression factors a number #*provides truth values searches a file for a fixed string determines file type fast incremental backup *finds files user info lookup program a game *formats disks and disketts a game recovers files from a backup tape *file check and repair *extended file check file system debugger	lex line link lint login logname lorder lp lpadmin lpd lpr lpsched lpstat ls m4 mail mailx make	generates programs to be used in lexical analysis read one line executes link system call a C program checker for likely bugs *makes a link to a file *sign on to system gets login name finds ordering relation for an object library sends&cancels request to an LP printer configures the LP spooling system *printer spooler *line printer spooler starts/stops LP request scheduler prints LP status *lists contents of directory macro processor intended as a front-end for C sends or reads mail interactive message processing system maintains update and regenerates groups of programs
	hess hroot flow hmod hgrp hown kpacct lear lri mp ol omb omm opy pio	verifies mathematical text formated by eqn and nqn for nroff and troff a game changes the root directory for a command generates C flow graph *changes mode #"changes group *changes owner or group periodically checks size of the accounting file clears terminal screen clears i-node *compares two files filters reverse line-feeds combines SCCS deltas selects or rejects lines common to two sorted files #"groups of files copy "file archives in and out copy "file copy, link or remove UNIX c preprocessor installs object files in binary directories a game clock dearnon user crontab file encrypts/decrypts	errdead errdeamon errpt errstop ex expr factor false fgrep file finc find finger fish format fortune frec fsck fscl fsdb fsplit	formats mathematical text for troff extracts error records from dump *error-logging deamon processes data collected by errdeamon terminates the error logging deamon text editor *evaluates arguments as an expression factors a number #*provides truth values searches a file for a fixed string determines file type fast incremental backup *finds files user info lookup program a game *formats disks and disketts a game recovers files from a backup tape *file check and repair *extended file check file system debugger splits f77, ratfor, or eff files	lex line link lint lin login logname lorder lp lpadmin lpd lpr lpsched lpstat ls m4 mail mailx make makekey	generates programs to be used in lexical analysis read one line executes link system call a C program checker for likely bugs *makes a link to a file *sign on to system gets login name finds ordering relation for an object library sends&cancels request to an LP printer configures the LP spooling system *printer spooler *line printer spooler starts/stops LP request scheduler prints LP status *lists contents of directory macro processor intended as a front-end for C sends or reads mail interactive message processing system maintains update and regenerates groups of programs generates encryption key
	hess hroot flow hmod hgrp hown kpacct lear liri mp ol omb omm opy pio pp pp pset	verifies mathematical text formated by eqn and nqn for nroff and troff a game changes the root directory for a command generates C flow graph *changes mode #*changes group *changes owner or group periodically checks size of the accounting file clears terminal screen clears i-node *compares two files filters reverse line-feeds combines SCCS deltas selects or rejects lines common to two sorted files #*groups of files copy *file archives in and out copy *file copy, link or remove UNIX c preprocessor installs object files in binary directories a game clock deamon user crontab file encrypts/decrypts according to key	errdead errdeamon errpt errstop ex expr factor false fgrep file finc find finger fish format fortune frec fsck fscl fsdb	formats mathematical text for troff extracts error records from dump *error-logging deamon processes data collected by errdeamon terminates the error logging deamon text editor *evaluates arguments as an expression factors a number #*provides truth values searches a file for a fixed string determines file type fast incremental backup *finds files user info lookup program a game *formats disks and disketts a game recovers files from a backup tape *file check and repair *extended file check file system debugger	lex line link lint login logname lorder lp lpadmin lpd lpr lpsched lpstat ls m4 mail mailx make	generates programs to be used in lexical analysis read one line executes link system call a C program checker for likely bugs *makes a link to a file *sign on to system gets login name finds ordering relation for an object library sends&cancels request to an LP printer configures the LP spooling system *printer spooler *line printer spooler starts/stops LP request scheduler prints LP status *lists contents of directory macro processor intended as a front-end for C sends or reads mail interactive message processing system maintains update and regenerates groups of programs generates encryption key prints user's manual a game
	hess hroot flow hmod hgrp hown kpacct lear liri mp ol omb omm opy pio pp pp pset rraps rrontab rrypt	verifies mathematical text formated by eqn and nqn for nroff and troff a game changes the root directory for a command generates C flow graph "changes mode #"changes group "changes owner or group periodically checks size of the accounting file clears terminal screen clears i-node "compares two files filters reverse line-feeds combines SCCS deltas selects or rejects lines common to two sorted files #"groups of files copy "file archives in and out copy "file copy, link or remove UNIX c preprocessor installs object files in binary directories a game clock deamon user crontab file encrypts/decrypts according to key the c-shell	errdead errdeamon errpt errstop ex expr factor false fgrep file finc find finger fish format fortune frec fsck fscl fsdb fsplit	formats mathematical text for troff extracts error records from dump *error-logging deamon processes data collected by errdeamon terminates the error logging deamon text editor *evaluates arguments as an expression factors a number #*provides truth values searches a file for a fixed string determines file type fast incremental backup *finds files user info lookup program a game *formats disks and disketts a game recovers files from a backup tape *file check and repair *extended file check file system debugger splits f77, ratfor, or eff files identifies processes using a file or file structure converts binary records of	lex line link lint lin login logname lorder lp lpadmin lpd lpr lpsched lpstat ls m4 mail mailx make makekey man	generates programs to be used in lexical analysis read one line executes link system call a C program checker for likely bugs *makes a link to a file *sign on to system gets login name finds ordering relation for an object library sends&cancels request to an LP printer configures the LP spooling system *printer spooler starts/stops LP request scheduler prints LP status *lists contents of directory macro processor intended as a front-end for C sends or reads mail interactive message processing system maintains update and regenerates groups of programs generates encryption key prints user's manual a game *D-BASIC V interpreter with
	hess hroot flow hmod hgrp hown kpacct lear lri mp ol omb omb omb opy pio pp pp pset rraps rron rrontab rrypt	verifies mathematical text formated by eqn and nqn for nroff and troff a game changes the root directory for a command generates C flow graph "changes mode #"changes mode #"changes owner or group periodically checks size of the accounting file clears terminal screen clears i-node "compares two files filters reverse line-feeds combines SCCS deltas selects or rejects lines common to two sorted files #"groups of files copy "file archives in and out copy "file copy, link or remove UNIX c preprocessor installs object files in binary directories a game clock deamon user crontab file encrypts/decrypts according to key the c-shell splits the context of a file	errdead errdeamon errpt errstop ex expr factor false fgrep file finc find finger fish format fortune frec fsck fscl fsdb fsplit fuser	formats mathematical text for troff extracts error records from dump *error-logging deamon processes data collected by errdeamon terminates the error logging deamon text editor *evaluates arguments as an expression factors a number #provides truth values searches a file for a fixed string determines file type fast incremental backup *finds files user info lookup program a game *formats disks and disketts a game recovers files from a backup tape *file check and repair *extended file check file system debugger splits f77, ratfor, or eff files identifies processes using a file or file structure converts binary records of the type found in wtmp	lex line link lint lin login logname lorder lp lpadmin lpd lpr lpsched lpstat ls m4 mail mailx make makekey man maze mdbasic	generates programs to be used in lexical analysis read one line executes link system call a C program checker for likely bugs *makes a link to a file *sign on to system gets login name finds ordering relation for an object library sends&cancels request to an LP printer configures the LP spooling system *printer spooler *line printer spooler starts/stops LP request scheduler prints LP status *lists contents of directory macro processor intended as a front-end for C sends or reads mail interactive message processing system maintains update and regenerates groups of programs generates encryption key prints user's manual a game *D-BASIC V interpreter with MIMER statements
	hess hroot flow hmod hgrp hown kpacct lear liri mp ol omb omm opy pio pp pp pset rraps rrontab rrypt	verifies mathematical text formated by eqn and nqn for nroff and troff a game changes the root directory for a command generates C flow graph *changes mode #changes mode #changes owner or group periodically checks size of the accounting file clears terminal screen clears i-node *compares two files filters reverse line-feeds combines SCCS deltas selects or rejects lines common to two sorted files #groups of files copy *file archives in and out copy *file copy, link or remove UNIX c preprocessor installs object files in binary directories a game clock deamon user crontab file encrypts/decrypts according to key the c-shell splits the context of a file makes a tag file for ex and vi	errdead errdeamon errpt errstop ex expr factor false fgrep file finc find finger fish format fortune frec fsck fscl fsdb fsplit fuser fwtmp ged	formats mathematical text for troff extracts error records from dump *error-logging deamon processes data collected by errdeamon terminates the error logging deamon text editor *evaluates arguments as an expression factors a number #*provides truth values searches a file for a fixed string determines file type fast incremental backup *finds files user info lookup program a game *formats disks and disketts a game recovers files from a backup tape *file check and repair *extended file check file system debugger splits f77, ratfor, or eff files identifies processes using a file or file structure converts binary records of the type found in wtmp interactive graphics editor	lex line link lint lin login logname lorder lp lpadmin lpd lpr lpsched lpstat ls m4 mail mailx make makekey man maze mdbasic memdiag	generates programs to be used in lexical analysis read one line executes link system call a C program checker for likely bugs *makes a link to a file *sign on to system gets login name finds ordering relation for an object library sends&cancels request to an LP printer configures the LP spooling system *printer spooler *line printer spooler starts/stops LP request scheduler prints LP status *lists contents of directory macro processor intended as a front-end for C sends or reads mail interactive message processing system maintains update and regenerates groups of programs generates encryption key prints user's manual a game *D-BASIC V interpreter with MIMER statements *memory diagnostics
	hess hroot flow hmod hgrp hown kpacct lear lri mp ol omb omb omb opy pio pp pp pset rraps rron rrontab rrypt	verifies mathematical text formated by eqn and nqn for nroff and troff a game changes the root directory for a command generates C flow graph *changes mode #changes mode #changes owner or group periodically checks size of the accounting file clears terminal screen clears i-node *compares two files filters reverse line-feeds combines SCCS deltas selects or rejects lines common to two sorted files #groups of files copy *file archives in and out copy *file copy, link or remove UNIX c preprocessor installs object files in binary directories a game clock deamon user crontab file encrypts/decrypts according to key the c-shell splits the context of a file makes a tag file for ex and vi C program debugger	errdead errdeamon errpt errstop ex expr factor false fgrep file finc find finger fish format fortune frec fsck fscl fsdb fsplit fuser fwtmp	formats mathematical text for troff extracts error records from dump *error-logging deamon processes data collected by errdeamon terminates the error logging deamon text editor *evaluates arguments as an expression factors a number #*provides truth values searches a file for a fixed string determines file type fast incremental backup *finds files user info lookup program a game *formats disks and disketts a game recovers files from a backup tape *file check and repair *extended file check file system debugger splits f77, ratfor, or eff files identifies processes using a file or file structure converts binary records of the type found in wtmp interactive graphics editor gets a version of an SCCS	lex line link lint lin login logname lorder lp lpadmin lpd lpr lpsched lpstat ls m4 mail mailx make makekey man maze mdbasic memdiag memtest	generates programs to be used in lexical analysis read one line executes link system call a C program checker for likely bugs *makes a link to a file *sign on to system gets login name finds ordering relation for an object library sends&cancels request to an LP printer configures the LP spooling system *printer spooler *line printer spooler starts/stops LP request scheduler prints LP status *lists contents of directory macro processor intended as a front-end for C sends or reads mail interactive message processing system maintains update and regenerates groups of programs generates encryption key prints user's manual a game *D-BASIC V interpreter with MIMER statements *memory diagnostics *memory test
	hess hroot flow hmod hgrp hown kpacct lear lri mp ol omb omb omb opy pio pp pset rraps rrontab rrypt sh esplit etags	verifies mathematical text formated by eqn and nqn for nroff and troff a game changes the root directory for a command generates C flow graph *changes mode #*changes group *changes owner or group periodically checks size of the accounting file clears terminal screen clears i-node *compares two files filters reverse line-feeds combines SCCS deltas selects or rejects lines common to two sorted files #*groups of files copy *file archives in and out copy *file archives in and out copy *file copy, link or remove UNIX c preprocessor installs object files in binary directories a game clock deamon user crontab file encrypts/decrypts according to key the c-shell splits the context of a file makes a tag file for ex and vi C program debugger *calls another system	errdead errdeamon errpt errstop ex expr factor false fgrep file finc find finger fish format fortune frec fsck fscl fsdb fsplit fuser fwtmp ged get	formats mathematical text for troff extracts error records from dump *error-logging deamon processes data collected by errdeamon terminates the error logging deamon text editor *evaluates arguments as an expression factors a number #*provides truth values searches a file for a fixed string determines file type fast incremental backup *finds files user info lookup program a game *formats disks and disketts a game recovers files from a backup tape *file check and repair *extended file check file system debugger splits f77, ratfor, or eff files identifies processes using a file or file structure converts binary records of the type found in wtmp interactive graphics editor gets a version of an SCCS file	lex line link lint lin login logname lorder lp lpadmin lpd lpr lpsched lpstat ls m4 mail mailx make makekey man maze mdbasic memdiag	generates programs to be used in lexical analysis read one line executes link system call a C program checker for likely bugs "makes a link to a file sign on to system gets login name finds ordering relation for an object library sends&cancels request to an LP printer configures the LP spooling system printer spooler line printer spooler starts/stops LP request scheduler prints LP status lists contents of directory macro processor intended as a front-end for C sends or reads mail interactive message processing system maintains update and regenerates groups of programs generates encryption key prints user's manual a game "D-BASIC V interpreter with MIMER statements "memory diagnostics "memory test permits or denies message
	hess hroot flow hmod hgrp hown kpacct lear lri mp ol omb omb omb opy pio pp pp pset traps trontab trypt tesh tesplit trags	verifies mathematical text formated by eqn and nqn for nroff and troff a game changes the root directory for a command generates C flow graph *changes mode #*changes group *changes owner or group periodically checks size of the accounting file clears terminal screen clears i-node *compares two files filters reverse line-feeds combines SCCS deltas selects or rejects lines common to two sorted files #*groups of files copy *file archives in and out copy *file copy, link or remove UNIX c preprocessor installs object files in binary directories a game clock deamon user crontab file encrypts/decrypts according to key the c-shell splits the context of a file makes a tag file for ex and vi C program debugger *calls another system cuts out selected fields of	errdead errdeamon errpt errstop ex expr factor false fgrep file finc find finger fish format fortune frec fsck fscl fsdb fsplit fuser fwtmp ged	formats mathematical text for troff extracts error records from dump *error-logging deamon processes data collected by errdeamon terminates the error logging deamon text editor *evaluates arguments as an expression factors a number #*provides truth values searches a file for a fixed string determines file type fast incremental backup *finds files user info lookup program a game *formats disks and disketts a game recovers files from a backup tape *file check and repair *extended file check file system debugger splits f77, ratfor, or eff files identifies processes using a file or file structure converts binary records of the type found in wtmp interactive graphics editor gets a version of an SCCS file breaks up a command line	lex line link lint lin login logname lorder lp lpadmin lpd lpr lpsched lpstat ls m4 mail mailx make makekey man maze mdbasic memdiag memtest mesg	generates programs to be used in lexical analysis read one line executes link system call a C program checker for likely bugs *makes a link to a file *sign on to system gets login name finds ordering relation for an object library sends&cancels request to an LP printer configures the LP spooling system *printer spooler starts/stops LP request scheduler prints LP status *lists contents of directory macro processor intended as a front-end for C sends or reads mail interactive message processing system maintains update and regenerates groups of programs generates encryption key prints user's manual a game *D-BASIC V interpreter with MIMER statements *memory diagnostics *memory test permits or denies message via write
	hess hroot flow hmod hgrp hown kpacct lear liri mp ol omb omm opy pio pp pp pset craps cron crontab crypt csh csplit ctags ctrace cut	verifies mathematical text formated by eqn and nqn for nroff and troff a game changes the root directory for a command generates C flow graph "changes mode #"changes mode #"changes owner or group periodically checks size of the accounting file clears terminal screen clears i-node "compares two files filters reverse line-feeds combines SCCS deltas selects or rejects lines common to two sorted files #"groups of files copy "file archives in and out copy "file copy, link or remove UNIX c preprocessor installs object files in binary directories a game clock deamon user crontab file encrypts/decrypts according to key the c-shell splits the context of a file makes a tag file for ex and vi C program debugger "calls another system cuts out selected fields of each line of a file	errdead errdeamon errpt errstop ex expr factor false fgrep file finc find finger fish format fortune frec fsck fscl fsdb fsplit fuser fwtmp ged get	formats mathematical text for troff extracts error records from dump *error-logging deamon processes data collected by errdeamon terminates the error logging deamon text editor *evaluates arguments as an expression factors a number #*provides truth values searches a file for a fixed string determines file type fast incremental backup *finds files user info lookup program a game *formats disks and disketts a game recovers files from a backup tape *file check and repair *extended file check file system debugger splits f77, ratfor, or eff files identifies processes using a file or file structure converts binary records of the type found in wtmp interactive graphics editor gets a version of an SCCS file	lex line link lint lin login logname lorder lp lpadmin lpd lpr lpsched lpstat ls m4 mail mailx make makekey man maze mdbasic memdiag memtest	generates programs to be used in lexical analysis read one line executes link system call a C program checker for likely bugs "makes a link to a file sign on to system gets login name finds ordering relation for an object library sends&cancels request to an LP printer configures the LP spooling system printer spooler line printer spooler starts/stops LP request scheduler prints LP status lists contents of directory macro processor intended as a front-end for C sends or reads mail interactive message processing system maintains update and regenerates groups of programs generates encryption key prints user's manual a game "D-BASIC V interpreter with MIMER statements "memory diagnostics "memory test permits or denies message
	hess hroot flow hmod hgrp hown kpacct lear lri mp ol omb omb omb opy pio pp pset rraps rrontab rrypt sh esplit etags	verifies mathematical text formated by eqn and nqn for nroff and troff a game changes the root directory for a command generates C flow graph *changes mode #*changes group *changes owner or group periodically checks size of the accounting file clears terminal screen clears i-node *compares two files filters reverse line-feeds combines SCCS deltas selects or rejects lines common to two sorted files #*groups of files copy *file archives in and out copy *file copy, link or remove UNIX c preprocessor installs object files in binary directories a game clock deamon user crontab file encrypts/decrypts according to key the c-shell splits the context of a file makes a tag file for ex and vi C program debugger *calls another system cuts out selected fields of	errdead errdeamon errpt errstop ex expr factor false fgrep file finc find finger fish format fortune frec fsck fscl fsdb fsplit fuser fwtmp ged get	formats mathematical text for troff extracts error records from dump *error-logging deamon processes data collected by errdeamon terminates the error logging deamon text editor *evaluates arguments as an expression factors a number #*provides truth values searches a file for a fixed string determines file type fast incremental backup *finds files user info lookup program a game *formats disks and disketts a game recovers files from a backup tape *file check and repair *extended file check file system debugger splits f77, ratfor, or eff files identifies processes using a file or file structure converts binary records of the type found in wtmp interactive graphics editor gets a version of an SCCS file breaks up a command line options for easy parsing by	lex line link lint lin login logname lorder lp lpadmin lpd lpr lpsched lpstat ls m4 mail mailx make makekey man maze mdbasic memdiag memtest mesg mkcfig	generates programs to be used in lexical analysis read one line executes link system call a C program checker for likely bugs *makes a link to a file *sign on to system gets login name finds ordering relation for an object library sends&cancels request to an LP printer configures the LP spooling system *printer spooler *line printer spooler starts/stops LP request scheduler prints LP status *lists contents of directory macro processor intended as a front-end for C sends or reads mail interactive message processing system maintains update and regenerates groups of programs generates encryption key prints user's manual a game *D-BASIC V interpreter with MIMER statements *memory diagnostics *memory denies message via write *configurates a system *conf

mknod	*builds special file	regcmp	compiles a regular	test	*tests a file
mkuser	*makes a user		expression and saves it in	tic	terminfo compiler
mm	types out document using		a file	time	*times the execution of a
	nroff and mm text format-	reject	allows/prevents LP	_	command
	ting macro package		requests	timex	same as time
mmt	typesets documents via	reversi	a game	toc	graphical table of contents
	troff	rjestat	RJE status report	touch	routines
mmlint	document capability	rm	*removes files or directories	touch	*updates the modifications of a file
mntable	checker	rmail	restricted mail	tolot	
mntchk	*extended mount	rmail rmdel	removes a delta from an	tplot	translates plotting instructions
moo monacct	a game invoked once each month	illidei	SCCS file	tput	query terminfo database
monacci	or each accounting period	rmdir	#*removes directory	tr	*translates characters
mount	*mounts and dismounts file	rmuser	#*removes user	trenter	enters a trouble report
mount	system	rsh	standard/restricted shell	troff	formats text for photo
mv	*moves or changes file	runacct	mainshell procedure to run		typesetter
	name		daily accounting	true	*provides truth values
mvdir	moves a directory	sa1	system activity report	tsort	topological sort
ncheck	generates names from i-	sa2	system activity report	ttt	a game
	numbers		package	tty	*gets the name of the terminal
neqn	formats mathematical text	sact	prints current SCCS file editing activity	turnacct	turns accounting on
noudom	for <i>nroff</i> changes the format of a	sadc	system activity report	umask	sets the file-creation mask
newform	text file	Jauc	package	umount	#*unmounts a file system
newarn		sadp	disk access profiler	uname	*prints name of current
newgrp news	log in to a new group prints news items	sar	system activity reporter		system
nice	*runs a command with low	SCCS	Source Code Control	unget	undo a previous get of
HICE	scheduling priority	0000	System		SCCS file
nl	a filter numbering lines of a	sccsdiff	compares two versions of	uniq	*reports repeated lines in a
•••	file on left side		an SCCS file	•	file
nm	prints the name list of each	sdb	symbolic debugger	units	conversion program
	object	sdiff	uses output of diff to	unlink	links and unlinks system
nohup	runs a command immune to		produce a side-by-side	unpack	compresses and expands
•	hang-ups		listing of two files indicating		files
nroff	formats text for printing on		lines that are different	uuclean	uucp spool directory clean-
	typewriter like devices and	sed .	stream editor	IIIIOD	up communication between
	printers	send	sends mail	uucp	UNIX systems
ocw	prepares constant width	setbclock setmnt	#*sets battery clock *establishes mount table	uulog	uucp log
od	text for <i>troff</i> *octal dump	setspeed	#*sets speed of printer port	uuname	uucp name
od	stores specified files in a	sh	*the shell	uupick	uucp public
pack	compressed form	shl	shell layer manager	uusub	monitor uucp network
paste	merges some lines of	shutacct	turns process accounting	uustat	status of <i>uucp</i>
pasie	several files or subsequent		off		communication
	lines of one file	shutdown	*terminates all processing	uuto	public system-to-system
passwd	*changes login password	siv	#*full screen editor		file copy
pcat	expands packed files and	size	prints decimal number of	uux	uucp system command
•	writes to standard output		bytes in object form		execution
pg	files perusal filter for soft-	sky	a game	val	validates SCCS file version control
	copy terminals	sleep	*suspend execution for an	VC	screen text editor
pr	*prints files		interval	vi volcopy	copies file systems with
prctmp	prints the session record	sno soelim	SNOBOL interpreter	voicopy	label checking
	file created by accton	Soeiiiii	eleiminates source directives from <i>nroff/troff</i>	wait	*awaits completion of
prdaily	accounting utility operating system profiler	sort	*sort program		process
prfdc	operating system profiler	spell	checks words in a file	wall	*writes to all users
prfld prfpr	operating system profiler	spellin	adds new words to spelling	wc	word count
prfsnap	operating system profiler	-Fo	dictionary	what	locates file of any type
pristat	operating system profiler	spline	accepts number pairs to	who	*who is on the system
powerfail	system initialization shell	•	interpolate a smooth curve	whodo	who is doing what
print	#*prints files with	split	splits a file	write	*writes to another user
	formatting	scroff	text formatter	wtmpfix	manipulates connect
printenv	prints out the environment	startup	shell procedure for acctsh	unima	accounting
prof	displays profile data	strip	removes symbols table	wump	a game constructs argument list
profiler	operating system profiler	stty	*sets the option for a	xargs	yet another compiler-
prs	prints an SCCS file	611	terminal	yacc	compiler
prtacct	used to format and prints	su	*become super-user or another user		
ne	any accounting file reports process status	sum	calculates and prints a 16	* included	in the D-NIX Base Package
ps psych	a game		bit checksum	(may vary)	
ptx	generates a permutated	sync	*updates the super block	# Commar	nds/programs added by DIAB
h.v.	index	sysdef	system definition	(may vary)	
pwck	scans password file and	tabs	sets tabs on terminal		·
F	checks for inconsistencies	tail	prints the tail end of a file		
pwd	*prints working directory	tar	*tape file achiver		
•	name	tbl	a preprocessor formatting	UNIX is a tra	ade mark of AT&T Bell Labs
quiz	a game_		tables for <i>nroff</i> or <i>troff</i>		
ratfor	rational Fortran dialect	tee	passes output of one program to input of another		ation contained herein is intended
rc	system initialization	telinit	program to input of another processes control	to be a gene	eral description and is subject to
red	text editor	temm	initialization	change with	product enhancement without
				notice.	