Index

Symbols

#include directive, 159
$PATH (TNF), 4
$set_name (TNF), 11
.fini (TNF), 3
.init (TNF), 3, 4
.prexrc, 15
/proc (TNF), 48

A

access control for editing, SCCS, 227
adding suffix rules in make, 171
admin, sccs subcommand, 251, 253
allocating buffer (TNF), 25
attaching prex to process, 5
attributes (TNF), 10

B

buffer, allocating (TNF), 25
building a project with make, 209
building libraries with make, 180

C

C++, 76
C++ mangled symbols, 72, 116
CC, 76
cdc, sccs subcommand, 238
check in, then check out file for editing, sccs deledit, 234
comb, sccs subcommand, 242
comma-file, SCCS, 228
command
  dependency checking in make, 158
  line, 294, 296
  replacement macro reference, 205
compare versions, sccsdiff, 238
compiling alternate library variants in make, 189
complex compilations and make, 182
conditional macro definitions in make, 187
consistency control (make), 143
control, place file under SCCS, 228
cookie.c (TNF), 16
create
  delta (SCCS), 231
  reports, sccs prs, 239
  SCCS history file, 228, 229
  sccs subcommand, 228, 229
cross-compilation macro
  HOST_ARCH, 223

TARGET_MACH, 223

D

data keywords, 239, 254
debug function (TNF), 3
debugging (TNF), 1
.DEFAULT special target in make, 152
default makefile, 147
defining
  new types for probes (TNF), 44
  macros in make, 157
  user types (TNF), 44
delayed macro references in make, 170
deledit, sccs subcommand, 234
delete pending changes, sccs unedit, 233
delta (SCCS)
  check in a file, 229, 231
  combining, 242
  creating, 231
  creating a new release, 246
  display commentary, sccs prt, 237
  display entire history, 239
  excluding from working copy, 241
  fix commentary, 240
  ID, SID, 230
  remove, 240
  update commentary, sccs cdc, 238
  vs. version, 229
demangling symbols, 72, 116
dependency
  checking in make, 148
  file, 144
diffs, sccs subcommand, 233
dlclose(3X) (TNF), 49
dlopen(3X) (TNF), 3, 49
Don't know how to make target, 152
duplicate targets (make), 153
dynamic macros
  implicit rules in make, 169
  modifiers in make, 169

E

edit, sccs subcommand, 229, 231, 241, 246
editing (SCCS)
  check editing status of, sccs info, 237
  check in, then out, sccs deledit, 234
  check out for editing, 229, 231
  controlling file access, 227
  delete pending changes, sccs unedit, 233
enabling
  kernel probes (TNF), 26
enhancements to make, 216
environment variables, 296, 297
errors, interpreting SCCS messages, 251
escaped NEWLINE, and make, 147
example, testing with make, 204
exec() (TNF), 49
extern C functions, 76
extracting kernel trace data (TNF), 29

F

failure code (TNF), 49
files
  administering SCCS, 251 to 253
  binary, and SCCS, 243
  check editing status of, sccs info, 237
  check in under SCCS, 229, 231
  check in, then out, for editing, sccs deledit, 234
  check out for editing from SCCS, 229, 231
  combining SCCS deltas, 242
  comma-file, SCCS, 228
  compare versions, sccs sccsdiff, 238
  create an SCCS history, 228
  delete pending changes, sccs unedit, 233
  dependency, in make, 145
  display entire SCCS history, 239
  duplicate source directories with SCCS, 244
  excluding deltas from SCCS working copy, 241

fix SCCS delta or commentary, 240
get most recent SID, 236
get selected version, 234
get version by date, 234
get working copy, 232
get working copy under SCCS, 229
locking sources with SCCS, 227
naming retrieved working copy, 234
parameters for SCCS history files, 251
presumed static by make, 145
remove SCCS delta, 240
restoring corrupted SCCS history file, 253
retrieving writable working copy from SCCS, 234, 241
review pending changes, sccs diffs, 233
review SCCS commentary, 229
s.file 228
SCCS-file, 228
target, in make, 145
temporary SCCS files, 246
trace (TNF), 22
validating SCCS history files, 252
x.file, SCCS 246
z.file, SCCS, 246
fix, sccs subcommand, 240
force processing of target in make, 152
fork(2) (TNF), 49
fork1(2) (TNF), 49

G

get (SCCS)
access to a file for editing under SCCS, 229, 231
most recent SID, 236
selected version of a file, 234
version by date, 234
version of a file by date under SCCS, 234
working copy of a file, 232
working copy of a file under SCCS, 229
get, sccs subcommand, 229, 232, 234, 236, 239, 241
grammar (TNF), 10

H

headers
hidden dependencies, make, 159,160
maintaining directory of, make, 194
help, sccs subcommand, 251
hidden dependency checking, make, 159
history file, create, SCCS 228, 229
HOST_ARCH macro, 223

I

ID keywords, 235, 254
iend, make(1), 303
.IGNORE special target in make, 155
ignored command exit status, make, 154
implicit rules, make, 147, 168
incompatibilities with older versions, make, 224 to 226
info, sccs subcommand, 237
.INIT special target, perform rule initially, 191
inserting probe points (TNF), 39
installing programs and libraries, make, 209
interpreting SCCS error messages, 251
istart, make(1), 275

K

.KEEP_STATE special target in make, 158
kernel (TNF) 24-38
disabling tracing, 28
enabling probes, 26
enabling tracing, 28
extracting trace data, 29
probes, 26, 30
reading trace, 30
resetting kernel tracing, 29
script for tracing, 35

tracing, resetting, 29
keywords
data, 239, 254
ID, 235, 254

L

level number, in SID, 230
lex(1), 51 to 79
command line, 52 to 54
definitions, 67 to 70, 77
disambiguating rules, 62 to 63
how to write source, 54 to 71
library, 53 to 54, 76
operators, 55 to 58
quick reference, 77 to 79
routines, 60, 64 to 67
source format, 54, 77 to 79
start conditions, 68 to 70
use with yacc(1), 67 to 68, 73 to 76, 81 to 84, 91 to 92, 112 to 114
user routines, 64 to 65, 70 to 71
yylex(), 52 to 53, 74
lexical analyzer (see lex(1)), 54
/lib/svr4.make, 275
libraries, maintaining, 288, 291
libraries, building with make, 180
libtnfprobe, 3, 4, 5
linking with system-supplied libraries in make, 185
lint and make, 184
local I/O probes, 34
locking, file versions (SCCS), 227

M

m4(1), 259 to 274
argument handling, 264 to 267
arithmetic capabilities, 267 to 268
command line, 260 to 261
conditional preprocessing, 269 to 270
defining macros, 261 to 264
file manipulation, 268 to 269
quoting, 262 to 264
string handling, 270 to 271
macros, 278, 285, 289, 291
defining (m4), 261 to 264
references in make, 157
processing changes for make, 221
maintaining,
libraries, 288, 291
programs with make, 143
software projects and make, 206
subsidiary libraries with make, 213
make, 143 to 226
#include directive, 159
adding suffix rules, 171
building libraries, 180
command-line arguments, 157
delayed macro reference, 170
depend replaced by hidden dependency checking, 159
enhancements, 216
escaped NEWLINE, 147
implicit rules, 147
improved library support, 223
and lint, 184
macro references in, 157
macros, 288
MAKEFLAGS macro, 197
metacharacters (shell) in make rules, 146
nested make commands, 195
noninteractive tasks and make, 143
options, 161
pattern-matching rules, 147, 173
predefined macros, 162
reserved words, 153
SHELL variable, 197
silent execution, 154
special targets, 152
suffix list, 167
suffix rules, 166
-t option, warning against, 163
target entry format for make, 145

target group, 202
or shell scripts, 144
version incompatibilities, 224 to 226
which version, 275
make target, 144, 145, 146, 150
.DEFAULT, 152
.IGNORE, 155
.KEEP_STATE, 158
.PRECIOUS, 182
.SILENT, 154
makefile, 144
and SCCS, 146
default file, 147
or Makefile, 146
searched for in working directory, 146
MAKEFLAGS macro in make, 197
messages, errors (SCCS), 251
metacharacters (shell) in make rules, 146

N

nested make commands, described, 195
No Id Keywords (cm7), 236
noninteractive tasks and make, 143

O

options, make, 161
organization issues and make, 206
organization of guide, xvii

P

page daemon (TNF), 33
page faults (TNF), 33
page I/O (TNF), 33
parser (see yacc(1)), 81
passing command-line arguments to make, 157
pattern, replacement macro references in make, 190
pattern-matching rules in make, 147,173
pattern-matching rules for troff, example of how to write, 209
performance data (TNF), 1
performance issues (TNF), 48
.PRECIOUS — special target in make, 182
predefined macros, using, in make, 162,165
prex, 3
attaching to process, 5
attributes, 10
commands, 13
connecting probe points, 15
disabling kernel tracing, 28
enabling probe points, 15
enabling tracing (kernel), 28
halting and continuing, 6
kernel tracing, 24
options, 4, 7
sample session, 18
script, 15
selecting kernel probes, 26
starting your program, 4
tnfdump sample, 23
trace file, 22
trace file name, 8
tracing, 15
probe functions (TNF), 3
probe points (TNF), 3
connecting, 15
enabling, 15, 28
tracing, 15
program maintenance with make, 143
program sample (TNF), 16
prs, sccs subcommand, 239
prt, prt subcommand, 229
prt, sccs subcommand, 237

R

recursive makefiles and directory hierarchies in make, 211
recursive targets, as distinct from nested make commands, 212
regular expressions, 55 to 58

release number, in SID, 230
repetitive tasks and make, 143
reserved make words, 153
reserved words (TNF), 12
resetting kernel tracing (TNF), 29
retrieve copies, SCCS, 227
retrieving current file versions from SCCS, in make, 155
review pending changes, sccs diffs, 233
rmdel, sccs subcommand, 240
rule, in target entry for make, 144
running tests with make, 203

S

s.file, 228
sample program (TNF), 16
SCCS, 227
  administering s.files, 251 to 253
  and binary files, 243
  branches, 246 to 251
  create a history file, 228
  data keywords, 239, 254
  delta ID, 230
  delta vs. version, 229
  duplicate source directories, 244
  history file parameters, 251
  history files as true source files, 244
  ID keywords, 235, 254
  and make, 143, 245
  and makefile, 146
  restoring a corrupted history file, 253
  s.file, 228
  temporary files, 246
  utility commands, 254
  validating history files, 252
  x.file, 246
  z.file, 246
sccs, 229
  admin, 251
  admin -z, 253
  cdc, 238
  comb, 242
  command, 228 to 246
  create, 228, 229
  deledit, 234
  delta, 229, 231
  diffs, 233
  diffs and the c option for diff, 233
  edit, 229, 231
  edit -r, 246
  edit -x, 241
  fix, 240
  get, 229, 232
  get -c, 234
  get -G, 234
  get -g, 236
  get -k, 234, 241
  get -m, 239
  get -r, 234
  help, 251
  info, 237
  prs, 239
  prt, 229, 237
  rmdel, 240
  sccsdiff, 238
  unedit, 233
  val, 252
SCCS subdirectory, 228
sccsdiff, sccs subcommand, 238
SCCS-file, 228
script for kernel tracing (TNF), 35
scripts and prex, 15
selecting kernel probes (TNF), 26
selector_list (TNF), 11
shell
  scripts vs. make, 144
  special characters and make, 146
  variables, references in make, 204
SHELL environment variable, and make, 197
SID, SCCS delta ID, 230
signals (TNF), 49
.SILENT special target in make, 154
silent command execution, make, 154
source code control system, 227

spaces, leading, common error in make rules, 145
special targets in make, 152
stderr (TNF), 3
suffix
  list, in make, 167
  replacement macro references in make, 183
  rules in makefiles, 166
  transformation, 285, 288, 298, 303
suppressing automatic SCCS retrieval in make, 156
swapper (TNF), 34
symbols, mangled, 72, 116
system call probes (TNF), 32
System V make, 275

T

target entry format for make, 145
target group, 202
target, make, 144
TARGET_ARCH macro, 223
targets, duplicate, 153
targets, special in make, 152
temporary files for SCCS, 246
thread probes (TNF), 31
thread scheduling probe (TNF), 34
TNF_DECLARE_RECORD, 44
TNF_DEFINE_RECORD_n, 44
TNF_PROBE macros, 39
tnf_probes, 30
tnfdump, 3, 7, 22, 30
  sample, 23
tnfxtract, 29
trace file (TNF), 22
Trace Normal Form (TNF), 3
tracing kernel
  disabling kernel (TNF), 28
  enabling kernel (TNF), 28
  extracing kernel data (TNF), 29
  kernel (TNF), 24
  resetting kernel (TNF), 29
tracing execution (TNF), 1, 15
transitive closure, none for suffix rules in make, 171

U

unedit, sccs subcommand, 233
USE_SVR4_MAKE system variable, 275
user types for probes, 44
/usr/ccs/bin/make, 275
/usr/share/lib/make/make.rules, 147

V

val, sccs subcommand, 252
variant object files and programs from the same sources in make, 188
version
  SCCS delta ID, 230
  vs. delta, in SCCS, 229
virtual memory probes (TNF), 32
VM probes (TNF), 32

W

words, reserved (TNF), 11
words, reserved in make, 153

X

x.file, 246

Y

yacc(1), 81 to 142
yacc(1) library, 76
  definitions, 90 to 92
  disambiguating rules, 99 to 109
  error handling, 109 to 112
  how to write source, 84 to 90
  library, 112 to 114
  routines, 117
  source format, 84

symbols, 84 to 90
typing, 119 to 120
use with dbx(1), 114
use with lex(1), 67 to 68, 73 to 76, 81 to 84, 91 to 92, 112 to 114
yylex(), 113
yyparse(), 112 to 114

Z

z.file, 246