```
1: #-- set this to the man directory you would like to use
 2: MANPATH:=/usr/share/man
 3:
 4: #-- uncomment this to enable debugging
 5: #DEBUG:=-g -DDEBUG
 6:
 7:
 8: ##### YOU SHOULD NOT CHANGE BELOW THIS LINE #####
9:
10: VERSION:=1.4.0
11: SHELL:=/bin/bash
12: SRCS:=api.c
13: MANS:=man3/libxbee.3 \
14:
          man3/xbee con.3 \
15:
          man3/xbee_end.3 \
16:
          man3/xbee_endcon.3
17:
          man3/xbee_flushcon.3 \
18:
          man3/xbee_getanalog.3 \
19:
          man3/xbee_getdigital.3 \
20:
          man3/xbee_getpacket.3 \
21:
          man3/xbee_hasanalog.3 \
22:
          man3/xbee_hasdigital.3 \
23:
          man3/xbee_logit.3 \
24:
          man3/xbee_newcon.3 \
25:
          man3/xbee_nsenddata.3 \
26:
          man3/xbee_pkt.3 \
27:
          man3/xbee_senddata.3 \
28:
          man3/xbee_setup.3 \
29:
          man3/xbee_setupAPI.3 \
30:
          man3/xbee_setuplog.3 \
31:
          man3/xbee_setuplogAPI.3
          man3/xbee_vsenddata.3
32:
33: MANPATHS:=$(foreach dir,$(shell ls man -ln | grep ^d | tr -s ' ' | cut -d ' ' -f 9),${MANPATH}/$(dir))
34:
35: PDFS:=${SRCS} ${SRCS:.c=.h} makefile main.c xbee.h
36:
37: CC:=qcc
38: CFLAGS:=-Wall -Wstrict-prototypes -Wno-variadic-macros -pedantic -c -fPIC ${DEBUG}
39: CLINKS:=-lpthread -lrt ${DEBUG}
40: DEFINES:=
41:
42: ifeq ($(strip $(wildcard ${MANPATH}/man3/libxbee.3.bz2)),)
43: FIRSTTIME:=TRUE
44: else
45: FIRSTTIME:=FALSE
46: endif
47:
48: ENSCRIPT:=-MA4 --color -f Courier8 -C --margins=15:15:0:20
49: ifneq ($(strip $(wildcard /usr/share/enscript/mine-web.hdr)),)
50: ENSCRIPT+= --fancy-header=mine-web
51: else
     ENSCRIPT+= --fancy-header=a2ps
52:
53: endif
54:
55: SRCS:=${sort ${SRCS}}
56: PDFS:=${sort ${PDFS}}
57:
58: .PHONY: FORCE
59: .PHONY: all run new clean cleanpdfs main pdfs
60: .PHONY: install install_su install_man
61: .PHONY: uninstall uninstall_su uninstall_man/
62:
63:
64: # all - do everything (default) #
65: all: ./lib/libxbee.so.$(VERSION)
66:
            @echo "*** Done! ***!
67:
68:
69: # run - remake main and then run #
70: run: all main
71:
            ./bin/main
72:
73:
74: # new - clean and do everything again #
75: new: clean all
76:
77:
78: # clean - remove any compiled files and PDFs #
79: clean:
80:
            rm -f ./*~
            rm -f ./sample/*^
rm -f ./obj/*.o
81:
82:
            rm -f ./lib/libxbee.so*
83:
84:
            rm -f ./bin/main
```

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86: cleanpdfs:
87:
         rm -f ./pdf/*.pdf
88:
89:
90: # install - installs library #
91: install: ./lib/libxbee.so.$(VERSION)
92:
         @echo
93:
         @echo
94: ifneq ($(shell echo $$USER),root)
95:
         @echo "### To Install this library I need the root password please!"
96:
         97:
98: endif
99:
         su -c "make install su --no-print-directory"
100:
         @echo
101: ifeq (${FIRSTTIME},TRUE)
         102:
103:
         @echo
         @pr -h "" -o 3 -w 86 -tT ./README
104:
         @echo
105:
106:
         107: endif
108:
109: install_su: /usr/lib/libxbee.so.$(VERSION) /usr/include/xbee.h install_man
110:
111: /usr/lib/libxbee.so.$(VERSION): ./lib/libxbee.so.$(VERSION)
         cp ./lib/libxbee.so.$(VERSION) /usr/lib/libxbee.so.$(VERSION) -f
112:
113:
         @chmod 755 /usr/lib/libxbee.so.$(VERSION)
114:
         @chown root:root /usr/lib/libxbee.so.$(VERSION)
         ln ./libxbee.so.$(VERSION) /usr/lib/libxbee.so.1 -sf
115:
116:
         @chown root:root /usr/lib/libxbee.so.1
117:
         ln ./libxbee.so.$(VERSION) /usr/lib/libxbee.so -sf
118:
         @chown root:root /usr/lib/libxbee.so
119:
120: /usr/include/xbee.h: ./xbee.h
121:
         cp ./xbee.h /usr/include/xbee.h -f
122:
         @chmod 644 /usr/include/xbee.h
123:
         @chown root:root /usr/include/xbee.h
124:
125: install_man: ${MANPATH} ${MANPATHS} ${addsuffix .bz2,${addprefix ${MANPATH}/,${MANS}}}
126:
127: ${MANPATH} ${MANPATHS}:
128:
         129:
         @echo "### $@ does not exist... cannot install man files here!"
         @echo "### Please check the directory and the MANPATH variable in the makefile"
130:
131:
         132:
         @false
133:
134: ${MANPATH}/%.bz2: ./man/%
         @echo "cat $< | bzip2 -z > $@"
135:
136:
         @cat $< | bzip2 -z > $@ || ( \
          137:
138:
           echo "### Installing man page '$*' to '$@' failed..."; \
139:
           echo "###################################;"; )
140:
         @chmod 644 $@
141:
         @chown root:root $@
142:
143: ./doc/:
144:
         mkdir ./doc/
145:
146: html: ./doc/ ./man/
         cd ./doc/; mkdir -p `find ../man/ -type d -not -path *.svn* | cut -b 2-`;
147:
148:
         find ./man/ -type f -not -path *.svn* | cut -d / -f 3- | sort > .html_todo
149:
         for item in 'cat .html_todo'; do \
150:
          man2html -r ./man/$$item | tail -n +3 > ./doc/man/$$item.html; \
151:
          done 2> /dev/null
         rm .html_todo
152:
153:
154: uninstall:
155:
         @echo
156:
         @echo
157: ifneq ($(shell echo $$USER),root)
158:
         159:
         @echo "### To Uninstall this library I need the root password please!"
160:
         161: endif
162:
         su -c "make uninstall_su --no-print-directory"
163:
         @echo
164:
         @echo
165:
166: uninstall_su: ${addprefix uninstall_man/,${MANS}}
167:
         rm /usr/lib/libxbee.so.$(VERSION) -f
168:
         rm /usr/lib/libxbee.so.1 -f
169:
         rm /usr/lib/libxbee.so -f
         rm /usr/include/xbee.h -f
170:
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172: uninstall_man/%:
173:
             rm ${MANPATH}/$*.bz2 -f
174:
175: # main - compile & link objects #
176: main: ./bin/main
178: ./bin/main: ./obj/api.o ./bin/ ./main.c
179: ${CC} ${CLINKS} ./main.c ./obj/api.o -o ./bin/main ${DEBUG}
180:
181: ./bin/:
182:
             mkdir ./bin/
183:
184: ./lib/libxbee.so.$(VERSION): ./lib/ ${addprefix ./obj/,${SRCS:.c=.o}} ./xbee.h
185:
             gcc -shared -Wl,-soname,libxbee.so.1 $(CLINKS) -o ./lib/libxbee.so.$(VERSION) ./obj/*.o
186:
             ln ./libxbee.so.$(VERSION) ./lib/libxbee.so.1 -sf
             ln ./libxbee.so.$(VERSION) ./lib/libxbee.so -sf
187:
188:
189: ./lib/:
190:
             mkdir ./lib/
191:
192: ./obj/:
193:
             mkdir ./obj/
194:
195: ./obj/%.o: ./obj/ %.c %.h xbee.h
196:
             ${CC} ${CFLAGS} ${DEFINES} ${DEBUG} $*.c -0 $@
197:
198: ./obj/%.o: ./obj/ %.c xbee.h
199:
             ${CC} ${CFLAGS} ${DEFINES} ${DEBUG} $*.c -0 $@
200:
201:
202: # pdfs - generate PDFs for each source file #
203: ifneq ($(strip $(wildcard /usr/bin/ps2pdf)),)
204: ifneq ($(strip $(wildcard /usr/bin/enscript)),)
205: pdfs: ./pdf/ ${addprefix ./pdf/,${addsuffix .pdf,${PDFS}}}}
206:
207: ./pdf/:
             mkdir ./pdf/
208:
209:
210: ./pdf/makefile.pdf: ./makefile
211:
             enscript ${ENSCRIPT} -Emakefile $< -p - | ps2pdf - $@
212:
213: ./pdf/%.pdf: %
214:
             enscript \{ENSCRIPT\} -Ec <-p - | ps2pdf - @
215:
216: ./pdf/%.pdf:
             @echo "*** Cannot make $@ - '$*' does not exist ***"
217:
218: else
219: pdfs:
220:
             @echo "WARNING: enscript is not installed - cannot generate PDF files"
221: endif
222: else
223: pdfs:
224:
             @echo "WARNING: ps2pdf is not installed - cannot generate PDF files"
225: endif
```