```
 1: SRCS:=api.c
 2: MANS:=man3/libxbee.3 \
 3:       man3/xbee_setup.3 \
 4:       man3/xbee_newcon.3 \
 5:       man3/xbee_getpacket.3 \
 6:       man3/xbee_senddata.3 \
 7:       man3/xbee_vsenddata.3
 8: PDFS:=${SRCS} ${SRCS:.c=.h} makefile main.c xbee.h globals.h
 9:
10: CC:=gcc
11: CFLAGS:=-Wall -Wstrict-prototypes -pedantic -c -fPIC ${DEBUG}
12: CLINKS:=-lm ./lib/libxbee.so.1.0.1 -lpthread ${DEBUG}
13: #DEBUG:=-g -DDEBUG
14: DEFINES:=
15:
16: MANPATH:=${shell manpath|cut -d : -f 1}
17:
18: ENSCRIPT:=-MA4 --color -f Courier8 -C --margins=15:15:0:20
19: ifneq ($(strip $(wildcard /usr/share/enscript/mine-web.hdr)),)
20:   ENSCRIPT+= --fancy-header=mine-web
21: else
22:   ENSCRIPT+= --fancy-header=a2ps
23: endif
24:
25:
26: SRCS:=${sort ${SRCS}}
27: PDFS:=${sort ${PDFS}}
28:
29: .PHONY: all run new clean cleanpdfs main pdfs install install_su uninstall uninstall_su uninstall_man/
30:
31: FORCE:
32:
33: # all - do everything (default) #
34: all: main
35:         @echo "*** Done! ***"
36:
37:
38: # run - remake main and then run #
39: run: main
40:         LD_LIBRARY_PATH=./lib:$LD_LIBRARY_PATH ./bin/main
41:
42:
43: # new - clean and do everything again #
44: new: clean all
45:
46:
47: # clean - remove any compiled files and PDFs #
48: clean:
49:         rm -f ./*~
50:         rm -f ./sample/*~
51:         rm -f ./obj/*.o
52:         rm -f ./lib/libxbee.so*
53:         rm -f ./bin/main
54:
55: cleanpdfs:
56:         rm -f ./pdf/*.pdf
57:
58:
59: # install - installs library #
60: install:
61:         @echo
62:         @echo
63:         @echo "###############################################################"
64:         @echo "### To Install this library I need the root password please! ###"
65:         @echo "###############################################################"
66:         su -c "make install_su --no-print-directory"
67:         @echo
68:         @echo
69:
70: install_su: /usr/lib/libxbee.so.1.0.1 /usr/include/xbee.h ${addsuffix .bz2,${addprefix ${MANPATH}/,${MANS}}}
71:
72: /usr/lib/libxbee.so.1.0.1: ./lib/libxbee.so.1.0.1
73:         cp ./lib/libxbee.so.1.0.1 /usr/lib/libxbee.so.1.0.1 -f
74:         @chmod 755 /usr/lib/libxbee.so.1.0.1
75:         @chown root:root /usr/lib/libxbee.so.1.0.1
76:         cp /usr/lib/libxbee.so.1.0.1 /usr/lib/libxbee.so.1 -sf
77:         @chown root:root /usr/lib/libxbee.so.1
78:         cp /usr/lib/libxbee.so.1.0.1 /usr/lib/libxbee.so -sf
79:         @chown root:root /usr/lib/libxbee.so
80:
81: /usr/include/xbee.h: ./xbee.h
82:         cp ./xbee.h /usr/include/xbee.h -f
83:         @chmod 644 /usr/include/xbee.h
84:         @chown root:root /usr/include/xbee.h
85:
```

```
 86: ${MANPATH}/%.bz2: ./man/%
 87:         cat $< | bzip2 -z > $@
 88:         @chmod 644 $@
 89:         @chown root:root $@
 90:
 91: uninstall:
 92:         @echo
 93:         @echo
 94:         @echo "###############################################################"
 95:         @echo "### To Uninstall this library I need the root password please! ###"
 96:         @echo "###############################################################"
 97:         su -c "make uninstall_su --no-print-directory"
 98:         @echo
 99:         @echo
100:
101: uninstall_su: ${addprefix uninstall_man/,${MANS}}
102:         rm /usr/lib/libxbee.so.1.0.1 -f
103:         rm /usr/lib/libxbee.so.1 -f
104:         rm /usr/lib/libxbee.so -f
105:         rm /usr/include/xbee.h -f
106:
107: uninstall_man/%:
108:         rm ${MANPATH}/$*.bz2 -f
109:
110: # main - compile & link objects #
111: main: ./bin/main
112:
113: ./bin/main: ./lib/libxbee.so.1.0.1 ./bin/ ./main.c
114:         ${CC} ${CLINKS} ./main.c -o ./bin/main ${DEBUG}
115:
116: ./bin/:
117:         mkdir ./bin/
118:
119: ./lib/libxbee.so.1.0.1: ./lib/ ./obj/ ${addprefix ./obj/,${SRCS:.c=.o}} ./xbee.h
120:         gcc -shared -Wl,-soname,libxbee.so.1 -o ./lib/libxbee.so.1.0.1 ./obj/*.o -lrt
121: ifeq ($(strip $(wildcard ./lib/libxbee.so.1)),)
122:         ln ./libxbee.so.1.0.1 ./lib/libxbee.so.1 -sf
123: endif
124: ifeq ($(strip $(wildcard ./lib/libxbee.so)),)
125:         ln ./libxbee.so.1.0.1 ./lib/libxbee.so -sf
126: endif
127:
128: ./lib/:
129:         mkdir ./lib/
130:
131: ./obj/:
132:         mkdir ./obj/
133:
134: ./obj/%.o: %.c %.h xbee.h globals.h
135:         ${CC} ${CFLAGS} ${DEFINES} ${DEBUG} $*.c -o $@
136:
137: ./obj/%.o: %.c xbee.h globals.h
138:         ${CC} ${CFLAGS} ${DEFINES} ${DEBUG} $*.c -o $@
139:
140:
141: # pdfs - generate PDFs for each source file #
142: ifneq ($(strip $(wildcard /usr/bin/enscript)),)
143: ifneq ($(strip $(wildcard /usr/bin/ps2pdf)),)
144: pdfs: ./pdf/ ${addprefix ./pdf/,${addsuffix .pdf,${PDFS}}}
145:
146: ./pdf/:
147:         mkdir ./pdf/
148:
149: ./pdf/makefile.pdf: ./makefile
150:         enscript ${ENSCRIPT} -Emakefile $< -p - | ps2pdf - $@
151:
152: ./pdf/%.pdf: %
153:         enscript ${ENSCRIPT} -Ec $< -p - | ps2pdf - $@
154:
155: ./pdf/%.pdf:
156:         @echo "*** Cannot make $@ - '$*' does not exist ***"
157: else
158: pdfs:
159:         @echo "WARNING: ps2pdf is not installed - cannot generate PDF files"
160: endif
161: else
162: pdfs:
163:         @echo "WARNING: enscript is not installed - cannot generate PDF files"
164: endif
```