```
 1: SRCS:=api.c
 2: MANS:=man3/libxbee.3 man3/xbee_setup.3 man3/xbee_newcon.3 man3/xbee_getpacket.3 man3/xbee_senddata.3 man3/xb↗
ee_vsenddata.3
 3: PDFS:=${SRCS} ${SRCS:.c=.h} makefile main.c xbee.h globals.h
 4:
 5: CC:=gcc
 6: CFLAGS:=-Wall -Wstrict-prototypes -pedantic -c -fPIC ${DEBUG}
 7: CLINKS:=-lm ./lib/libxbee.so.1.0.1 -lpthread ${DEBUG}
 8: #DEBUG:=-g -DDEBUG
 9: DEFINES:=
10:
11: MANPATH:=${shell manpath|cut -d : -f 1}
12:
13: ENSCRIPT:=-MA4 --color -f Courier8 -C --margins=15:15:0:20
14: ifneq ($(strip $(wildcard /usr/share/enscript/mine-web.hdr)),)
15:   ENSCRIPT+= --fancy-header=mine-web
16: else
17:   ENSCRIPT+= --fancy-header=a2ps
18: endif
19:
20:
21: SRCS:=${sort ${SRCS}}
22: PDFS:=${sort ${PDFS}}
23:
24: .PHONY: all run new clean cleanpdfs main pdfs install install_su uninstall uninstall_su uninstall_man↗
25:
26: FORCE:
27:
28: # all - do everything (default) #
29: all: main
30:         @echo "*** Done! ***"
31:
32:
33: # run - remake main and then run #
34: run: main
35:         LD_LIBRARY_PATH=./lib:$LD_LIBRARY_PATH ./bin/main
36:
37:
38: # new - clean and do everything again #
39: new: clean all
40:
41:
42: # clean - remove any compiled files and PDFs #
43: clean:
44:         rm -f ./*~
45:         rm -f ./sample/*~
46:         rm -f ./obj/*.o
47:         rm -f ./lib/libxbee.so*
48:         rm -f ./bin/main
49:
50: cleanpdfs:
51:         rm -f ./pdf/*.pdf
52:
53:
54: # install - installs library #
55: install:
56:         @echo
57:         @echo
58:         @echo "################################################################"
59:         @echo "### To Install this library I need the root password please! ###"
60:         @echo "################################################################"
61:         su -c "make install_su --no-print-directory"
62:         @echo
63:         @echo
64:
65: install_su: /usr/lib/libxbee.so.1.0.1 /usr/include/xbee.h ${addsuffix .bz2,${addprefix ${MANPATH}/,${MANS}}}
66:
67: /usr/lib/libxbee.so.1.0.1: ./lib/libxbee.so.1.0.1
68:         cp ./lib/libxbee.so.1.0.1 /usr/lib/libxbee.so.1.0.1 -f
69:         @chmod 755 /usr/lib/libxbee.so.1.0.1
70:         @chown root:root /usr/lib/libxbee.so.1.0.1
71:         cp /usr/lib/libxbee.so.1.0.1 /usr/lib/libxbee.so.1 -sf
72:         @chown root:root /usr/lib/libxbee.so.1
73:         cp /usr/lib/libxbee.so.1.0.1 /usr/lib/libxbee.so -sf
74:         @chown root:root /usr/lib/libxbee.so
75:
76: /usr/include/xbee.h: ./xbee.h
77:         cp ./xbee.h /usr/include/xbee.h -f
78:         @chmod 644 /usr/include/xbee.h
79:         @chown root:root /usr/include/xbee.h
80:
81: ${MANPATH}/%.bz2: ./man/%
82:         cat $< | bzip2 -z > $@
83:         @chmod 644 $@
84:         @chown root:root $@
```

```makefile
 85:
 86: uninstall:
 87:         @echo
 88:         @echo
 89:         @echo "####################################################################"
 90:         @echo "### To Uninstall this library I need the root password please! ###"
 91:         @echo "####################################################################"
 92:         su -c "make uninstall_su --no-print-directory"
 93:         @echo
 94:         @echo
 95:
 96: uninstall_su: ${addprefix uninstall_man/,${MANS}}
 97:         rm /usr/lib/libxbee.so.1.0.1 -f
 98:         rm /usr/lib/libxbee.so.1 -f
 99:         rm /usr/lib/libxbee.so -f
100:         rm /usr/include/xbee.h -f
101:
102: uninstall_man/%:
103:         rm ${MANPATH}/$*.bz2 -f
104:
105: # main - compile & link objects #
106: main: ./bin/main
107:
108: ./bin/main: ./lib/libxbee.so.1.0.1 ./bin/ ./main.c
109:         ${CC} ${CLINKS} ./main.c -o ./bin/main ${DEBUG}
110:
111: ./bin/:
112:         mkdir ./bin/
113:
114: ./lib/libxbee.so.1.0.1: ./lib/ ./obj/ ${addprefix ./obj/,${SRCS:.c=.o}} ./xbee.h
115:         gcc -shared -Wl,-soname,libxbee.so.1 -o ./lib/libxbee.so.1.0.1 ./obj/*.o -lrt
116: ifeq ($(strip $(wildcard ./lib/libxbee.so.1)),)
117:         ln ./libxbee.so.1.0.1 ./lib/libxbee.so.1 -sf
118: endif
119: ifeq ($(strip $(wildcard ./lib/libxbee.so)),)
120:         ln ./libxbee.so.1.0.1 ./lib/libxbee.so -sf
121: endif
122:
123: ./lib/:
124:         mkdir ./lib/
125:
126: ./obj/:
127:         mkdir ./obj/
128:
129: ./obj/%.o: %.c %.h xbee.h globals.h
130:         ${CC} ${CFLAGS} ${DEFINES} ${DEBUG} $*.c -o $@
131:
132: ./obj/%.o: %.c xbee.h globals.h
133:         ${CC} ${CFLAGS} ${DEFINES} ${DEBUG} $*.c -o $@
134:
135:
136: # pdfs - generate PDFs for each source file #
137: ifneq ($(strip $(wildcard /usr/bin/enscript)),)
138: ifneq ($(strip $(wildcard /usr/bin/ps2pdf)),)
139: pdfs: ./pdf/ ${addprefix ./pdf/,${addsuffix .pdf,${PDFS}}}
140:
141: ./pdf/:
142:         mkdir ./pdf/
143:
144: ./pdf/makefile.pdf: ./makefile
145:         enscript ${ENSCRIPT} -Emakefile $< -p - | ps2pdf - $@
146:
147: ./pdf/%.pdf: %
148:         enscript ${ENSCRIPT} -Ec $< -p - | ps2pdf - $@
149:
150: ./pdf/%.pdf:
151:         @echo "*** Cannot make $@ - '$*' does not exist ***"
152: else
153: pdfs:
154:         @echo "WARNING: ps2pdf is not installed - cannot generate PDF files"
155: endif
156: else
157: pdfs:
158:         @echo "WARNING: enscript is not installed - cannot generate PDF files"
159: endif
```