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

```
87: uninstall_su:
            rm /usr/lib/libxbee.so.1.0.1 -f
88:
            rm /usr/lib/libxbee.so.1 -f
 89:
 90:
            rm /usr/lib/libxbee.so -f
 91:
            rm /usr/include/xbee.h -f
 92:
93: # main - compile & link objects #
94: main: ./bin/main
95:
 96: ./bin/main: ./lib/libxbee.so.1.0.1 ./bin/ ./main.c
            ${CC} ${CLINKS} ./main.c -o ./bin/main ${DEBUG}
 97:
98:
99: # scan - compile & link objects #
100: scan: ./bin/scan
101:
102: ./bin/scan: ./lib/libxbee.so.1.0.1 ./bin/ ./sample/scan.c
103:
             ${CC} ${CLINKS} ./sample/scan.c -o ./bin/scan ${DEBUG}
104:
105: ./bin/:
106:
            mkdir ./bin/
107:
108: ./lib/libxbee.so.1.0.1: ./lib/ ./obj/ ${addprefix ./obj/,${SRCS:.c=.0}} ./xbee.h
109:
             gcc -shared -W1,-soname,libxbee.so.1 -o ./lib/libxbee.so.1.0.1 ./obj/*.o -lrt
110: ifeq ($(strip $(wildcard ./lib/libxbee.so.1)),)
111:
             ln ./libxbee.so.1.0.1 ./lib/libxbee.so.1 -sf
112: endif
113: ifeq ($(strip $(wildcard ./lib/libxbee.so)),)
114:
             ln ./libxbee.so.1.0.1 ./lib/libxbee.so -sf
115: endif
116:
117: ./lib/:
             mkdir ./lib/
118:
119:
120: ./obj/:
121:
            mkdir ./obj/
122:
123: ./obj/%.o: %.c %.h xbee.h globals.h
124:
             ${CC} ${CFLAGS} ${DEFINES} ${DEBUG} $*.c -0 $@
125:
126: ./obj/%.o: %.c xbee.h globals.h
             ${CC} ${CFLAGS} ${DEFINES} ${DEBUG} $*.c -0 $@
127:
128:
129:
130: # pdfs - generate PDFs for each source file #
131: ifneq ($(strip $(wildcard /usr/bin/enscript)),)
132: ifneq ($(strip $(wildcard /usr/bin/ps2pdf)),)
133: pdfs: ./pdf/ ${addprefix ./pdf/,${addsuffix .pdf,${PDFS}}}}
134:
135: ./pdf/:
136:
            mkdir ./pdf/
137:
138: ./pdf/makefile.pdf: ./makefile
139:
            enscript ${ENSCRIPT} -Emakefile $< -p - | ps2pdf - $@
140:
141: ./pdf/%.pdf: %
             enscript ${ENSCRIPT} -Ec $< -p - | ps2pdf - $@
142:
143:
144: ./pdf/%.pdf:
             @echo "*** Cannot make $@ - '$*' does not exist ***"
145:
146: else
147: pdfs:
148:
             @echo "WARNING: ps2pdf is not installed - cannot generate PDF files"
149: endif
150: else
151: pdfs:
152:
             @echo "WARNING: enscript is not installed - cannot generate PDF files"
153: endif
```