

```

1: 1: #-- set this to the man directory you would like to use
2: MANPATH:=/usr/share/man
3:
4: 4: #-- uncomment this to enable debugging
5: #DEBUG:=-g -DDEBUG
6:
7:
8: 8: ##### YOU SHOULD NOT CHANGE BELOW THIS LINE #####
9:
10:
11: SRCS:=api.c
12: MANS:=man3/libxbee.3 \
13:     man3/xbee_setup.3 \
14:     man3/xbee_setuplog.3 \
15:     man3/xbee_newcon.3 \
16:     man3/xbee_flushcon.3 \
17:     man3/xbee_endcon.3 \
18:     man3/xbee_getpacket.3 \
19:     man3/xbee_senddata.3 \
20:     man3/xbee_nsenddata.3 \
21:     man3/xbee_vsenddata.3 \
22:     man3/xbee_getdigital.3 \
23:     man3/xbee_hasdigital.3 \
24:     man3/xbee_getanalog.3 \
25:     man3/xbee_hasanalog.3 \
26:     man3/xbee_pkt.3
27: MANPATHS:=$(foreach dir,$(shell ls man -ln | grep ^d | tr -s ' ' | cut -d ' ' -f 9),${MANPATH}/${dir})
28:
29: PDFS:=${SRCS} ${SRCS:.c=.h} makefile main.c xbee.h globals.h
30:
31: CC:=gcc
32: CFLAGS:=-Wall -Wstrict-prototypes -pedantic -c -fPIC ${DEBUG}
33: CLINKS:=-lm ./lib/libxbee.so.1.0.1 -lpthread ${DEBUG}
34: DEFINES:=
35:
36: ifeq ($(strip $(wildcard ${MANPATH}/man3/libxbee.3.bz2)),)
37: FIRSTTIME:=TRUE
38: else
39: FIRSTTIME:=FALSE
40: endif
41:
42: ENSCRIPT:=-MA4 --color -f Courier8 -C --margins=15:15:0:20
43: ifneq ($(strip $(wildcard /usr/share/enscript/mine-web.hdr)),)
44: ENSCRIPT+= --fancy-header=mine-web
45: else
46: ENSCRIPT+= --fancy-header=a2ps
47: endif
48:
49: SRCS:=$(sort ${SRCS})
50: PDFS:=$(sort ${PDFS})
51:
52: .PHONY: all run new clean cleanpdfs main pdfs
53: .PHONY: install install_su install_man
54: .PHONY: uninstall uninstall_su uninstall_man/
55:
56:
57: 57: # all - do everything (default) #
58: all: main
59:     @echo "**** Done! ****"
60:
61:
62: 62: # run - remake main and then run #
63: run: main
64:     LD_LIBRARY_PATH=./lib:$LD_LIBRARY_PATH ./bin/main
65:
66:
67: 67: # new - clean and do everything again #
68: new: clean all
69:
70:
71: 71: # clean - remove any compiled files and PDFs #
72: clean:
73:     rm -f ./.*~
74:     rm -f ./sample/*~
75:     rm -f ./obj/*.o
76:     rm -f ./lib/libxbee.so*
77:     rm -f ./bin/main
78:
79: cleanpdfs:
80:     rm -f ./pdf/*.pdf
81:
82:
83: 83: # install - installs library #
84: install: ./lib/libxbee.so.1.0.1
85:     @echo

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86:         @echo
87: ifneq ($(shell echo $$USER),root)
88:         @echo "#####"
89:         @echo "### To Install this library I need the root password please!"
90:         @echo "#####"
91: endif
92:         su -c "make install_su --no-print-directory"
93:         @echo
94: ifeq (${FIRSTTIME},TRUE)
95:         @echo "#####"
96:         @echo
97:         @pr -h "" -o 3 -w 86 -tT ./README
98:         @echo
99:         @echo "#####"
100: endif
101:
102: install_su: /usr/lib/libxbee.so.1.0.1 /usr/include/xbee.h install_man
103:
104: /usr/lib/libxbee.so.1.0.1: ./lib/libxbee.so.1.0.1
105:         cp ./lib/libxbee.so.1.0.1 /usr/lib/libxbee.so.1.0.1 -f
106:         @chmod 755 /usr/lib/libxbee.so.1.0.1
107:         @chown root:root /usr/lib/libxbee.so.1.0.1
108:         cp /usr/lib/libxbee.so.1.0.1 /usr/lib/libxbee.so.1 -sf
109:         @chown root:root /usr/lib/libxbee.so.1
110:         cp /usr/lib/libxbee.so.1.0.1 /usr/lib/libxbee.so -sf
111:         @chown root:root /usr/lib/libxbee.so
112:
113: /usr/include/xbee.h: ./xbee.h
114:         cp ./xbee.h /usr/include/xbee.h -f
115:         @chmod 644 /usr/include/xbee.h
116:         @chown root:root /usr/include/xbee.h
117:
118: install_man: ${MANPATH} ${MANPATHS} ${addsuffix .bz2,${addprefix ${MANPATH}/,${MANS}}}
119:
120: ${MANPATH} ${MANPATHS}:
121:         @echo "#####"
122:         @echo "### $@ does not exist... cannot install man files here!"
123:         @echo "### Please check the directory and the MANPATH variable in the makefile"
124:         @echo "#####"
125:         @false
126:
127: ${MANPATH}/%.bz2: ./man/%
128:         @echo "cat $< | bzip2 -z > $@"
129:         @cat $< | bzip2 -z > $@ || ( \
130:         echo "#####"; \
131:         echo "### Installing man page '$*' to '$@' failed..."; \
132:         echo "#####"; )
133:         @chmod 644 $@
134:         @chown root:root $@
135:
136: uninstall:
137:         @echo
138:         @echo
139: ifneq ($(shell echo $$USER),root)
140:         @echo "#####"
141:         @echo "### To Uninstall this library I need the root password please!"
142:         @echo "#####"
143: endif
144:         su -c "make uninstall_su --no-print-directory"
145:         @echo
146:         @echo
147:
148: uninstall_su: ${addprefix uninstall_man/,${MANS}}
149:         rm /usr/lib/libxbee.so.1.0.1 -f
150:         rm /usr/lib/libxbee.so.1 -f
151:         rm /usr/lib/libxbee.so -f
152:         rm /usr/include/xbee.h -f
153:
154: uninstall_man/%:
155:         rm ${MANPATH}/${*.bz2} -f
156:
157: # main - compile & link objects #
158: main: ./bin/main
159:
160: ./bin/main: ./lib/libxbee.so.1.0.1 ./bin/ ./main.c
161:         ${CC} ${CLINKS} ./main.c -o ./bin/main ${DEBUG}
162:
163: ./bin/:
164:         mkdir ./bin/
165:
166: ./lib/libxbee.so.1.0.1: ./lib/ ./obj/ ${addprefix ./obj/,${SRCS:.c=.o}} ./xbee.h
167:         gcc -shared -Wl,-soname,libxbee.so.1 -o ./lib/libxbee.so.1.0.1 ./obj/*.o -lrt
168: ifeq (${strip $(wildcard ./lib/libxbee.so.1)},)
169:         ln ./libxbee.so.1.0.1 ./lib/libxbee.so.1 -sf
170: endif

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171: ifeq ($(strip $(wildcard ./lib/libxbee.so)),)
172:     ln ./libxbee.so.1.0.1 ./lib/libxbee.so -sf
173: endif
174:
175: ./lib/:
176:     mkdir ./lib/
177:
178: ./obj/:
179:     mkdir ./obj/
180:
181: ./obj/%.o: %.c %.h xbee.h globals.h
182:     ${CC} ${CFLAGS} ${DEFINES} ${DEBUG} $.c -o $@
183:
184: ./obj/%.o: %.c xbee.h globals.h
185:     ${CC} ${CFLAGS} ${DEFINES} ${DEBUG} $.c -o $@
186:
187:
188: # pdfs - generate PDFs for each source file #
189: ifneq ($(strip $(wildcard /usr/bin/ps2pdf)),)
190: ifneq ($(strip $(wildcard /usr/bin/enscript)),)
191: pdfs: ./pdf/ ${addprefix ./pdf/,${addsuffix .pdf,${PDFS}}}
192:
193: ./pdf/:
194:     mkdir ./pdf/
195:
196: ./pdf/makefile.pdf: ./makefile
197:     enscript ${ENSCRIPT} -Emakefile $< -p - | ps2pdf - $@
198:
199: ./pdf/%.pdf: %
200:     enscript ${ENSCRIPT} -Ec $< -p - | ps2pdf - $@
201:
202: ./pdf/%.pdf:
203:     @echo "**** Cannot make $@ - '$*' does not exist ****"
204: else
205: pdfs:
206:     @echo "WARNING: enscript is not installed - cannot generate PDF files"
207: endif
208: else
209: pdfs:
210:     @echo "WARNING: ps2pdf is not installed - cannot generate PDF files"
211: endif

```