

```

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: VERSION:=1.4.1
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_purgecon.3 \
19:     man3/xbee_getanalog.3 \
20:     man3/xbee_getdigital.3 \
21:     man3/xbee_getpacket.3 \
22:     man3/xbee_hasanalog.3 \
23:     man3/xbee_hasdigital.3 \
24:     man3/xbee_logit.3 \
25:     man3/xbee_logitf.3 \
26:     man3/xbee_newcon.3 \
27:     man3/xbee_nsenddata.3 \
28:     man3/xbee_pkt.3 \
29:     man3/xbee_senddata.3 \
30:     man3/xbee_setup.3 \
31:     man3/xbee_setupAPI.3 \
32:     man3/xbee_setuplog.3 \
33:     man3/xbee_setuplogAPI.3 \
34:     man3/xbee_vsenddata.3
35: MANPATHS:=$(foreach dir,$(shell ls man -ln | grep ^d | tr -s ' ' | cut -d ' ' -f 9),${MANPATH}/${dir})
36:
37: PDFS:=${SRCS} ${SRCS:.c=.h} makefile main.c xbee.h
38:
39: CC:=gcc
40: CFLAGS:=-Wall -Wstrict-prototypes -Wno-variadic-macros -pedantic -c -fPIC ${DEBUG}
41: CLINKS:=-lpthread -lrt ${DEBUG}
42: DEFINES:=
43:
44: ifeq ($(strip $(wildcard ${MANPATH}/man3/libxbee.3.bz2)),)
45: FIRSTTIME:=TRUE
46: else
47: FIRSTTIME:=FALSE
48: endif
49:
50: ENSCRIPT:=-MA4 --color -f Courier8 -C --margins=15:15:0:20
51: ifneq ($(strip $(wildcard /usr/share/enscript/mine-web.hdr)),)
52: ENSCRIPT+= --fancy-header=mine-web
53: else
54: ENSCRIPT+= --fancy-header=a2ps
55: endif
56:
57: SRCS:=$(sort ${SRCS})
58: PDFS:=$(sort ${PDFS})
59:
60: .PHONY: FORCE
61: .PHONY: all run new clean cleanpdfs main pdfs html
62: .PHONY: install install_su install_man
63: .PHONY: uninstall uninstall_su uninstall_man/
64:
65:
66: 66: # all - do everything (default) #
67: all: ./lib/libxbee.so.${VERSION}
68:     @echo "**** Done! ****"
69:
70:
71: 71: # run - remake main and then run #
72: run: all main
73:     ./bin/main
74:
75:
76: 76: # new - clean and do everything again #
77: new: clean all
78:
79:
80: 80: # clean - remove any compiled files and PDFs #
81: clean:
82:     rm -f ./~*
83:     rm -f ./sample/*~
84:     rm -f ./obj/*.o
85:     rm -f ./lib/libxbee.so*

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86:         rm -f ./bin/main
87:
88: cleanpdfs:
89:         rm -f ./pdf/*.pdf
90:
91:
92: # install - installs library #
93: install: ./lib/libxbee.so.${VERSION}
94:         @echo
95:         @echo
96: ifneq ($(shell echo $$USER),root)
97:         @echo "#####"
98:         @echo "### To Install this library I need the root password please!"
99:         @echo "#####"
100: endif
101:         su -c "make install_su --no-print-directory"
102:         @echo
103: ifeq (${FIRSTTIME},TRUE)
104:         @echo "#####"
105:         @echo
106:         @pr -h "" -o 3 -w 86 -tT ./README
107:         @echo
108:         @echo "#####"
109: endif
110:
111: install_su: /usr/lib/libxbee.so.${VERSION} /usr/include/xbee.h install_man
112:
113: /usr/lib/libxbee.so.${VERSION}: ./lib/libxbee.so.${VERSION}
114:         cp ./lib/libxbee.so.${VERSION} /usr/lib/libxbee.so.${VERSION} -f
115:         @chmod 755 /usr/lib/libxbee.so.${VERSION}
116:         @chown root:root /usr/lib/libxbee.so.${VERSION}
117:         ln ./libxbee.so.${VERSION} /usr/lib/libxbee.so.1 -sf
118:         @chown root:root /usr/lib/libxbee.so.1
119:         ln ./libxbee.so.${VERSION} /usr/lib/libxbee.so -sf
120:         @chown root:root /usr/lib/libxbee.so
121:
122: /usr/include/xbee.h: ./xbee.h
123:         cp ./xbee.h /usr/include/xbee.h -f
124:         @chmod 644 /usr/include/xbee.h
125:         @chown root:root /usr/include/xbee.h
126:
127: install_man: ${MANPATH} ${MANPATHS} ${addsuffix .bz2,${addprefix ${MANPATH}/,${MANS}}}
128:
129: ${MANPATH} ${MANPATHS}:
130:         @echo "#####"
131:         @echo "### $@ does not exist... cannot install man files here!"
132:         @echo "### Please check the directory and the MANPATH variable in the makefile"
133:         @echo "#####"
134:         @false
135:
136: ${MANPATH}/%.bz2: ./man/%
137:         @echo "cat $< | bzip2 -z > $@"
138:         @cat $< | bzip2 -z > $@ || ( \
139:         echo "#####"; \
140:         echo "### Installing man page '$*' to '$@' failed..."; \
141:         echo "#####"; )
142:         @chmod 644 $@
143:         @chown root:root $@
144:
145: ./doc/:
146:         mkdir ./doc/
147:
148: html: ./doc/ ./man/
149:         cd ./doc/; mkdir -p `find ../man/ -type d -not -path *.svn* | cut -b 2-`;
150:         find ../man/ -type f -not -path *.svn* | cut -d / -f 3- | sort > .html_todo
151:         for item in `cat .html_todo`; do \
152:             man2html -r ../man/$$item | tail -n +3 > ./doc/man/$$item.html; \
153:             done 2> /dev/null
154:         rm .html_todo
155:
156: uninstall:
157:         @echo
158:         @echo
159: ifneq ($(shell echo $$USER),root)
160:         @echo "#####"
161:         @echo "### To Uninstall this library I need the root password please!"
162:         @echo "#####"
163: endif
164:         su -c "make uninstall_su --no-print-directory"
165:         @echo
166:         @echo
167:
168: uninstall_su: ${addprefix uninstall_man/,${MANS}}
169:         rm /usr/lib/libxbee.so.${VERSION} -f
170:         rm /usr/lib/libxbee.so.1 -f

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171:         rm /usr/lib/libxbee.so -f
172:         rm /usr/include/xbee.h -f
173:
174: uninstall_man%:
175:         rm ${MANPATH}/${*.bz2} -f
176:
177: # main - compile & link objects #
178: main: ./bin/main
179:
180: ./bin/main: ./obj/api.o ./bin/ ./main.c
181:         ${CC} ${CLINKS} ./main.c ./obj/api.o -o ./bin/main ${DEBUG}
182:
183: ./bin/:
184:         mkdir ./bin/
185:
186: ./lib/libxbee.so.${VERSION}: ./lib/ ${addprefix ./obj/,${SRCS:.c=.o}} ./xbee.h
187:         gcc -shared -Wl,-soname,libxbee.so.1 ${CLINKS} -o ./lib/libxbee.so.${VERSION} ./obj/*.o
188:         ln ./libxbee.so.${VERSION} ./lib/libxbee.so.1 -sf
189:         ln ./libxbee.so.${VERSION} ./lib/libxbee.so -sf
190:
191: ./lib/:
192:         mkdir ./lib/
193:
194: ./obj/:
195:         mkdir ./obj/
196:
197: ./obj/%.o: ./obj/ %.c %.h xbee.h
198:         ${CC} ${CFLAGS} ${DEFINES} ${DEBUG} ${*.c} -o $@
199:
200: ./obj/%.o: ./obj/ %.c xbee.h
201:         ${CC} ${CFLAGS} ${DEFINES} ${DEBUG} ${*.c} -o $@
202:
203:
204: # pdfs - generate PDFs for each source file #
205: ifneq ($(strip $(wildcard /usr/bin/ps2pdf)),)
206: ifneq ($(strip $(wildcard /usr/bin/enscript)),)
207: pdfs: ./pdf/ ${addprefix ./pdf/,${addsuffix .pdf,${PDFS}}}
208:
209: ./pdf/:
210:         mkdir ./pdf/
211:
212: ./pdf/makefile.pdf: ./makefile
213:         enscript ${ENSCRIPT} -Emakefile $< -p - | ps2pdf - $@
214:
215: ./pdf/%.pdf: %
216:         enscript ${ENSCRIPT} -Ec $< -p - | ps2pdf - $@
217:
218: ./pdf/%.pdf:
219:         @echo "**** Cannot make $@ - '$*' does not exist ****"
220: else
221: pdfs:
222:         @echo "WARNING: enscript is not installed - cannot generate PDF files"
223: endif
224: else
225: pdfs:
226:         @echo "WARNING: ps2pdf is not installed - cannot generate PDF files"
227: endif
```