



Bjain,

Here's a copy of what
went out ~~today~~ on the tape,
Sorry about the delay, but
you know how it is when you
have source control and multiple
branches to mess things up!

SCP

ARGS:	[-C -d -fp -oorig=C++ -otime=476843513]
PASSCOMM:	[\$fbcc1c++:D. \$wartout: lpbpin=m13:home=bc]
copies:	[[1] [0]]
ctime:	[\$fbcc1c++]
files:	[/usr/spool/lp/request/Laser-9001]
job:	[]
lpbin:	[]
match:	[sfbc (Laser-9001)]
mail:	[]
originator:	[c++]
printerr:	[Laser1]
printtime:	[476843537]
request:	[Laserx-9677]
route:	[nsc]
sequence:	[795]
subject:	[476843513]
title:	[]
transit:	[0]
version:	[08-02-84]

795 - JASERL Sat Feb 9 19:32:27 EST 1985

Feb 8 14:11 1985 README Page 1

%Z% %M% %I% %H% %T%

To build and install your C++ compiler:

1) Dump the tape (using "cpio -icd") to a convienient directory (like "/home/directory/C++"). No doubt this has already been done.

2) Edit the file localCC. Change the ROOT variable to /home/directory/C++.

3) cd to the directory and issue

"make ROOT=/home/directory/C++ fromscratch"

This will make everything from scratch and install the executables, libraries and include files locally (i.e., under /home/directory/C++).

Issue a "make clean".

4) Issue (from /home/directory/C++)

"make CC=/home/directory/C++/usr/lbin/CC install"

This will install the executables, libraries and include files in standard places:

/usr/lbin/cfront

/usr/lbin/CC

/lib/libC.a

/usr/include/CC/...

/usr/lbin/sscan

/lib/CCcrt0.o

/lib/CCmcrt0.o

5) To save space, issue a "make clean".

Feb 8 14:11 1985 makefile Page 1

```
# %Z% %M% %I% %H% %T%
# C++ master makefile
#
ROOT=
CC=CC
CCLOC=/usr/lbin/CC
CFRONT=/usr/lbin/cfront
LIBC=/lib/libC.a
SSCAN=/usr/lbin/sscan
INCL=/usr/include/CC
CRTLIB=/lib
LSRC=/usr/lsrc/cmd/CC

all :
    if u3b; then \
        cd C++ ; make CC=$(CC) OSUF=.o ; \
        cd .. ; \
        cd libC ; make CC=$(CC) OSUF=.o ; \
    else \
        cd C++ ; make CC=$(CC) OSUF=..o ; \
        cd .. ; \
        cd libC ; make CC=$(CC) OSUF=..o ; \
    fi
    if u3b ; \
        then cd sscan ; make CC=$(CC) ; \
    fi

install :
    if u3b; then \
        cd C++ ; make CC=$(CC) OSUF=.o ; \
    else \
        cd C++ ; make CC=$(CC) OSUF=..o ; \
    fi
    if u3b ; \
        then cd sscan ; make CC=$(CC) ; \
    fi
    rm -f $(ROOT)$(CCLOC)
    if test $(ROOT) ; then \
        cp localCC $(ROOT)$(CCLOC) ; \
    else \
        cp CC $(CCLOC) ; \
    fi
    chmod +x $(ROOT)$(CCLOC)
    rm -f $(ROOT)$(CFRONT)
    cp C++/cfront $(ROOT)$(CFRONT)
    if u3b; then \
        rm -f $(ROOT)$(CRTLIB)/CCcrt0.o ; \
        cp sscan/CCcrt0.o $(ROOT)$(CRTLIB)/CCcrt0.o ; \
        rm -f $(ROOT)$(CRTLIB)/CCmcrt0.o ; \
        cp sscan/CCmcrt0.o $(ROOT)$(CRTLIB)/CCmcrt0.o ; \
        rm -f $(ROOT)$(SSCAN) ; \
        cp sscan/sscan $(ROOT)$(SSCAN) ; \
    fi
    if u3b; then \
        cd libC ; make CC=$(CC) OSUF=.o ; \
    else \
```

Feb 8 14:11 1985 makefile Page 2

```
        cd libC ; make CC=$(CC) OSUF=..o ; \
fi
rm -f $(ROOT)$LIBC
cp libC$(CRTLIB)C.a $(ROOT)$LIBC
rm -rf $(ROOT)$(INCL)/*
cp incl/sys/* $(ROOT)$(INCL)/sys
cp incl/*.h $(ROOT)$(INCL)

clean :
cd C++ ; make clean
cd sscan ; make clean
cd libC ; make clean
cd c ; rm -f *..o

clobber :
cd C++ ; make clobber
cd sscan ; make clobber
cd libC ; make clobber

uplist :
uplist -f up.C++.3bs
rm -f $(LSRC)/C++/*
cp C++/*. [chy] C++/makefile $(LSRC)/C++
rm -f $(LSRC)/sscan/*
cp sscan/*. [cs] sscan/makefile $(LSRC)/sscan
rm -f $(LSRC)/incl/*.h $(LSRC)/incl/sys/*
cp incl/*.h $(LSRC)/incl
cp incl/sys/* $(LSRC)/incl/sys
rm -f $(LSRC)/libC/makefile
cp libC/makefile $(LSRC)/libC
rm -f $(LSRC)/libC/complex/*
cp libC/complex/*. [ch] libC/complex/makefile $(LSRC)/libC/complex
rm -f $(LSRC)/libC/new/*
cp libC/new/*. [ch] libC/new/makefile $(LSRC)/libC/new
rm -f $(LSRC)/libC/stream/*
cp libC/stream/*. [ch] libC/stream/makefile $(LSRC)/libC/stream
rm -f $(LSRC)/libC/task/*
cp libC/task/*. [chs] libC/task/makefile $(LSRC)/libC/task
rm -f $(LSRC)/CC $(LSRC)/makefile
cp CC makefile $(LSRC)
uplist -f up.C++.vaxes

fromscratch :
cd $(ROOT)/c ; cc *..c -o cfront
mv $(ROOT)/c/cfront $(ROOT)/usr/lbin/cfront
cp $(ROOT)/localCC $(ROOT)/usr/lbin/CC
chmod +x $(ROOT)/usr/lbin/CC
if u3b; then \
    cd libC/new ; make CC=$(ROOT)/usr/lbin/CC OSUF=.o ; \
    ar cr libC.a $(ROOT)/libC/new/*.o ; \
    mv libC.a $(ROOT)/lib ; \
    cd ..../ ; \
    make CC=$(ROOT)/usr/lbin/CC ROOT=$(ROOT) OSUF=.o install ;
else \
    cd libC/new ; make CC=$(ROOT)/usr/lbin/CC OSUF=..o ; \
    ar cr libC.a $(ROOT)/libC/new/..o ; \
```

Feb 8 14:11 1985 makefile Page 3

```
mv libC.a $(ROOT)/lib ; \
cd ..../ ; \
make CC=$(ROOT)/usr/lbin/CC ROOT=$(ROOT) OSUF=..o install ;
fi
cp $(ROOT)/localCC $(ROOT)/usr/lbin/CC
chmod +x $(ROOT)/usr/lbin/CC
```

Feb 8 17:59 1985 CC Page 1

```
# @(#) CC 1.2 2/8/85 17:59:07
E=0
: ${CFRONT:=$ROOT/usr/lbin/cfront}
: ${SSCAN:=$ROOT/usr/lbin/sscan}
: ${ARLIB:=$ROOT/lib/libC.a}
: ${I:=$ROOT/usr/include/CC}
: ${CCOMP:=cc}
: ${LDCC:=/usr/local/bin/cc}
: ${CRTOPT:='-Y $S,$ROOT/lib/CC'}
if vax ; then
    SUF=..c
    OSUF=..o
else
    SUF=.i
    OSUF=.o
fi

for A do
    case $A in
        +V)   I="/usr/include"
              O="$O $A"
              ;;
        +i)   RMI="echo preprocessor output in"
              ;;
        +I)   STATICs=yes ;
              O="$O $A"
              ;;
        +*)   O="$O $A"
              ;;
        -E)   PON=1
              ;;
        -F)   FON=1
              ;;
        -Fc)  FON=1
              O="$O +L"
              ;;
        -c)   DASHCOPT="-c"
              ;;
        -r)   LDOPT="$LDOPT $A"
              DASHROPT="-r"
              ;;
        -[gp]) COMPOPT="$COMPOPT $A"
                LDOPT="$LDOPT $A"
                ;;
        -C)   Y="$Y $A"
              O="$O +C"
              ;;
        -I*)  Y="$Y $A"
              ;;
        -D*)  Y="$Y $A"
              ;;
        -U*)  Y="$Y $A"
              ;;
        -.c)  echo "bad suffix option: -.c"
              ;;
```

Feb 8 17:59 1985 CC Page 2

```
-.*$ SUF=`expr "$A" : '-\(.*\)'`  
;;  
[ ! -]*.[oa]) LDOPT="$LDOPT $A"  
G=1  
;;  
*.c) if test -f $A  
then  
B=`basename $A .c`  
if test $PON  
then  
if test $SUF  
then  
echo "cpp $0 $A > $B$SUF:"  
/lib/cpp $Y -I$I $A >$B$SUF  
E=$?  
case $E in  
0) ;;  
*) break  
;;  
esac  
else  
/lib/cpp $Y -I$I $A  
E=$?  
case $E in  
0) ;;  
*) break  
;;  
esac  
fi  
elif test $FON  
then  
if test $SUF  
then  
echo "cfront $0 < $A > $B$SUF:"  
/lib/cpp -C $Y -I$I $A | $CFRONT +f$A $0  
E=$?  
if [ "$RMI" != "" ] ; then  
sed '/^#/d' >/tmp/CC$$ $B$SUF  
mv /tmp/CC$$ $B$SUF  
fi  
  
case $E in  
0) ;;  
1) echo "1 error"  
break  
;;  
*) echo "$E errors"  
break  
;;  
esac  
else  
/lib/cpp -C $Y -I$I $A | $CFRONT +f$A $0  
E=$?  
case $E in  
0) ;;  
*) break
```

```
                                ;;
esac
fi
else
echo "CC $O $A:"
/lib/cpp -C $Y -I$I $A | $CFRONT +f$A $O > $B$SUF
E=$?
if [ "$RMI" != "" ] ; then
    sed '/^#/d' >/tmp/CC$$ $B$SUF
    mv /tmp/CC$$ $B$SUF
fi

R=1
C="$C $B$SUF"
case $E in
0)   COMPOPT="$COMPOPT $B$SUF"
      LDOPT="$LDOPT $B$OSUF"
      G=1
      ;;
1)   echo "1 error"
      break
      ;;
*)   echo "$E errors"
      break
      ;;
esac
fi
else
echo "$A not found"
fi
;;
*) COMPOPT="$COMPOPT $A"
LDOPT="$LDOPT $A"
G=1
;;
esac
done
if test $G
then
$CCOMP -c $COMPOPT
if [ "$DASHCOPT" = "-c" ]
then
: no ld
else
if [ "$STATICS" = "yes" -a "$DASHROPT" != "-x" ]
then
    $SSCAN $LDOPT >/tmp/_ST$$.c
    $LDCC $CRTOPT /tmp/_ST$$.c $LDOPT $ARLIB
    rm -f /tmp/_ST$$.c _ST$$.o _ST$$.s 2>/dev/null
else
    $LDCC $LDOPT $ARLIB
fi
fi
```

Feb 8 17:59 1985 CC Page 4

```
if      test $R
then
${{RMI:-rm}} $C
fi
exit $E
```