

APPENDIX A
AMCC-SUPPLIED
SHELL SCRIPTS

APPENDIX A

THE SHELLS:

RUN_AGIF	NETLIST GENERATION
RUN_AMCC	SUPER SHELL
RUN_DD	DANCE AND DRINK
RUN_ERC	AMCC ERC
RUN_ANN	AMCC ANNOTATION
RUN_SIFT	SIFT (TIMING)
RUN_SMAKER	CREATE SOM_MCF.SING AND FMT
RUN_SMT	AMCCSIMFMT
RUN_SOM	INTEGRATION
RUN_VRC	AMCCVRC

THESE ARE SUPPLIED AS PART OF THE AMCC MACROMATRIX
SOFTWARE

ONCE A SCHEMATIC IS CAPTURED, TYPE:

RUN_AMCC

THE SUPER SHELL CALLS THE OTHER SHELLS WHICH IN TURN CALL OUT THE VARIOUS COMMANDS TO EXECUTE THE DAISY AND THE AMCC SOFTWARE IN THE PROPER ORDER OF EXECUTION

THE MENU WILL ASK FOR A CHOICE OF 1, 2 OR 3

1 WILL CAUSE RUN_DD DANCE-DRINK TO A DAISY NETLIST
RUN_AGIF REFORMAT TO AMCC AGIF NETLIST
RUN_ERC ERC SOFTWARE

AFTER DEBUG OF ANY ERRORS,

2 WILL CAUSE RUN_ANN ANNOTATION

3 WILL CAUSE RUN_SIFT TIMING LIBRARY SELECTION
RUN_SMAKER SING-TO-DAISY

THIS WILL END WITH: TEC SOM_MCF.SING

AFTER EDITING THE SIMULATION CONTROL FILE, ON EXITING TEC, THE MENU RETURNS

0 WILL CAUSE AN EXIT

IF OTHER EDITING SUCH AS DATA FILE CREATION IS REQUIRED, SELECT 0, ELSE,

4 WILL CAUSE RUN_SOM SOM AND TCAL STEPS

FROM HERE, EXIT USING 0 AND RUN DLS OR DTV AS DESIRED

ALSO, USE TEC TO CREATE THE SIGNAL ANALYSIS FILE

RECALL RUN_AMCC

5 WILL CAUSE RUN_SMT AMCCSIMFMT

6 WILL CAUSE RUN_VRC AMCCVRC

YOU MAY RUN THE SUB-SHELLS BY CALLING THEM INDIVIDUALLY
THE PROPER ORDER IS:

RUN_DD
RUN_AGIF
RUN_ERC
DEBUG AS NEEDED

RUN_ANN
RUN_SIFT
RUN_SMAKER

EDIT SIMULATION CONTROL FILE
CREATE A DATA FILE IF DESIRED
RUN_SOM

FROM HERE, RUN DLS OR DTV AS DESIRED

AND WHEN SIMULATION IS COMPLETE, TYPE
RUN_SMT

AFTER CREATING THE SIGNAL ANALYSIS FILE, TYPE
RUN_VRC

YOU MAY ALSO RUN THE REQUIRED STEPS BY TYPING IN
THE INDIVIDUAL SPECIFIC COMMANDS

THE COMMANDS:

DANCE -T -N -ERR -M3
DRINK -T -M3

RUN_AGIF SING-TO-AGIF; USE THIS SHELL

AMCCERC

AMCCANN

SIFT -M3 -LIB \$FAMILY/PATCH\$1.SLIB \$FAMILY/Q50IO\$1.SLIB\
\$FAMILY/Q50GE\$1.SLIB \$FAMILY/Q50RA\$1.SLIB

SING -M3 -MCF /AMCC/SOM_MAKER/SOM_MCF
FMT_CSD.SING
TEC SOM_MCF.SING
(EDIT THE SIMULATION CONTROL FILE)

SOM SOM_MCF.SING -M3 -L SOM.ERR
TCAL -MCF FMTxxx.DSY -M3

FROM HERE, RUN DLS OR DTV AS DESIRED

DLS
GET FMT
MODE
(EDIT)
{ENTER}
VIEW 9999 10000
RUN nnnnnnnn
START 0
LIST OR WAVE AS DESIRED
{ENTER}
QUIT
N

THE \$OUTPUTS SECTION FILE DEFINED IN THE SOM_MCF.SING
FILE IS THE INPUT TO AMCCSIMFMT

AMCCSIMFMT

THE OUTPUT OF AMCCSIMFMT IS INPUT TO AMCCVRC

AMCCVRC

```

Date: 14 SEP 88 14:42 File: /AMCC/SUBMIT/RUN_AGIF
echo 'FALSE' > ERROR.ERR
echo '
***** RUNNING AGIF NETLISTER *****'
MKDIR ERC 2 > /DEV/NULL
AMCCAGIF > ERC/CIRCUIT.SDI 2 > /DEV/NULL
if (test -s ERC/CIRCUIT.SDI)
then
echo
else
echo ' *** AGIF SYSTEM ERROR (Contact AMCC) !!!!! ***
; **** PROBABLE CAUSE: EXCEEDED REAL MEMORY ***** > AGIF_SYS.ERR
echo '
***** AGIF SYSTEM ERROR !!! *****
**
***** PLEASE ENTER "TYPE AGIF_SYS.ERR" *****
,
echo 'TRUE' > ERROR.ERR
exit
fi
if egrep -s 'ERROR' RUN_AGIF.ERR
then
echo '
***** AGIF NETLISTER ERROR !!! *****
**
***** PLEASE ENTER "TYPE RUN_AGIF.ERR" *****
,
echo 'TRUE' > ERROR.ERR
exit
else
echo '
***** AGIF NETLISTER COMPLETE !!! *****
fi

```

Date: 14 SEP 88 14:42 File: /AMCC/SUBMIT/RUN_AMCC

```

menu=9
echo 'FALSE' > ERROR.ERR
while (test $menu -gt 0)
do
  MAX_MENU.LIB      Please Enter [0 - 6] : '
  echo -n ,
  read menu
  echo
  if (test $menu -gt 6)
  then
    echo '      Only Values Between 0 through 6 are Valid....'
    exit
  fi
  if (test $menu -eq 0)
  then
    exit
  fi
  if (test $menu -eq 1)
  then
    RUN_DD
    if egrep -s 'TRUE' ERROR.ERR
    then
      exit
    fi
  fi
  RUN_AGIF
  if egrep -s 'TRUE' ERROR.ERR
  then
    exit
  fi
  RUN_ERC
  if egrep -s 'TRUE' ERROR.ERR
  then
    exit
  fi
  if
  fi
  if (test $menu -eq 2)
  then
    RUN_ANN
    if egrep -s 'TRUE' ERROR.ERR
    then
      exit
    fi
  fi
  fi

```

```

if (test Smenu -eq 3)
then
if egrep -s '014000' ERC/CIRCUIT.SDI
then
echo -n '      Please Enter Product Grade (MIN, NOM, COM4, COM5 or MIL) : ';
else
echo -n '      Please Enter Product Grade (MIN, NOM, COM or MIL) : ';
fi
read grade
EXPORT grade
RUN_SIFT $grade
if egrep -s 'TRUE' ERROR.ERR
then
exit
fi
RUN_SMAKER
if egrep -s 'TRUE' ERROR.ERR
then
exit
fi
fi
if (test Smenu -eq 4)
then
echo -n '      Please Enter SOM Master Control File : ';
read mcf
EXPORT mcf
echo -n '      Please Enter TCAL Delay File : ';
read tcal
EXPORT tcal
RUN_SOM $mcf $tcal
if egrep -s 'TRUE' ERROR.ERR
then
exit
fi
fi
if (test Smenu -eq 5)
then
RUN_SMT
if egrep -s 'TRUE' ERROR.ERR
then
exit
fi
fi
if (test Smenu -eq 6)
then
RUN_VRC
if egrep -s 'TRUE' ERROR.ERR
then
exit
fi
fi

```


RUN_

Date: 14 SEP 88 14:42 File: /AMCC/SUBMIT/RUN_ANN

echo 'FALSE' > ERROR.ERR

echo '***** RUNNING AMCCANN *****'

cd ERC

echo -n ' Need to Edit Package Pin Data? (Y or N) ; '

read temp

echo ''

if (test \$temp = 'Y' -o \$temp = 'y')

then

if (test -f OUTPUT.DLY)

then

AMCCANN <<!

!

else

AMCCANN <<!

!

fi

else
AMCCANN

fi
if egrep -s 'ERROR' AMCCANN.LST

then

echo '

***** AMCCANN ERROR !!!!! *****

**

**

***** PLEASE ENTER "TYPE AMCCANN.LST"*****

.'

cd ..

echo 'TRUE' > ERROR.ERR

exit

else

CPY *.DSY TO ../*.DSY -B 2> /DEV/NULL

rm *.DSY

cd ..

echo '

***** AMCCANN OK !!!!! *****

fi

RUN_DD

Date: 14 SEP 88 14:42 File: /AMCC/SUBMIT/RUN_DD

echo 'FALSE' > ERROR.ERR

echo ' ***** RUNNING DANCE -T -N -ERR -M3 *****
,

DANCE -T -N -ERR -M3 2> DANCE.ERR

if egrep -s 'PAGES FLAGGED. HIGHEST SEVERITY WAS 0' DANCE.ERR
then

echo ' ***** DANCE OK !!!!! *****
,

else

echo ' ***** DANCE ERROR !!!!! *****
** **
***** PLEASE ENTER "TYPE DANCE.ERR" *****
,

echo 'TRUE' > ERROR.ERR

fi

echo ' ***** RUNNING DRINK -T -M3 *****
,

DRINK -T -M3 2> DRINK.ERR

if egrep -s 'BLOCKS FLAGGED. HIGHEST SEVERITY WAS 0' DRINK.ERR
then

echo ' ***** DRINK OK !!!!! *****
,

else

echo ' ***** DRINK ERROR !!!!! *****
** **
***** PLEASE ENTER "TYPE DRINK.ERR" *****
,

echo 'TRUE' > ERROR.ERR

fi

RUN_ERC

```
Date: 14 SEP 88 14:42 File: /AMCC/SUBMIT/RUN_ERC
echo 'FALSE' > ERROR.ERR
echo '
***** RUNNING AMCCERC *****
',
cd ERC
AMCCERC
if egrep -s '^ERROR' AMCCERC.LST
then
  echo '
***** AMCCERC ERROR !!!!! *****
**
**** PLEASE ENTER "TYPE ERC/AMCCERC.LST" ****
',
  cd ..
  echo 'TRUE' > ERROR.ERR
  exit
else
  echo '
***** AMCCERC OK !!!!! *****
',
fi
```

NOTE: /ERC/AMCCERC.LST IS THE ERC REPORT

```

Date: 14 SEP 88 14:42 File: /AMCC/SUBMIT/RUN_SIFT
echo 'FALSE' > ERROR.ERR
if test -z "$1"
then
echo '
***** NO GRADE VALUE ENTERED !!!! *****
**
** ENTER "RUN_SIFT MIN, NOM, COM or MIL" **
'
echo 'TRUE' > ERROR.ERR
fi
exit
echo "
***** RUNNING SIFT *****
"
FAMILY = /AMCC/Q5000_LIBS GRADE = $1
SIFT -M3 -LIB /AMCC/Q5000_LIBS/PATCH$1.SLIB /AMCC/Q5000_LIBS/Q50I1$1.SLIB \
/AMCC/Q5000_LIBS/Q50G1$1.SLIB /AMCC/Q5000_LIBS/Q50G2$1.SLIB \
/AMCC/Q5000_LIBS/Q50G3$1.SLIB /AMCC/Q5000_LIBS/Q50M1$1.SLIB \
/AMCC/Q5000_LIBS/Q50G1$1H.SLIB /AMCC/Q5000_LIBS/Q50G2$1H.SLIB \
/AMCC/Q5000_LIBS/Q50G3$1H.SLIB /AMCC/Q5000_LIBS/Q50M1$1H.SLIB \
/AMCC/Q5000_LIBS/Q50I1$1H.SLIB 2> SIFT.ERR
if egrep -s 'WRITING TREE SIF FILE', SIFT.ERR
then
echo '
***** SIFT OK !!!! *****
'
else
echo '
***** SIFT ERROR !!!! *****
**
***** PLEASE ENTER "TYPE SIFT.ERR" *****
'
echo 'TRUE' > ERROR.ERR
fi
exit

```

RDN_SMAKER

Date: 14 SEP 88 14:43 File: /AMCC/SUBMIT/RUN_SMAKER

```
echo 'FALSE' > ERROR.ERR
echo '
***** RUNNING SING TO SOM *****
SING -M3 -MCF /AMCC/SOM_MAKER/SOM_MCF 2> SOM_MAKER.ERR
if egrep -s 'SING ERROR' SOM_MAKER.ERR
then
echo '
***** SING TO DAISY ERROR !!!!! *****
**
***** PLEASE ENTER "TYPE SOM_MAKER.ERR" *****
echo 'TRUE' > ERROR.ERR
exit
else
echo '
***** SING TO DAISY OK !!!!! *****
fi
echo '
***** RUNNING FMT_CSD.SING *****
FMT_CSD.SING 2>> SOM_MAKER.ERR
if egrep -s 'No user errors' SOM_MAKER.ERR
then
echo '
***** FMT FORMAT OK !!!!! *****
else
echo '
***** FMT FORMAT ERROR !!!!! *****
**
***** PLEASE ENTER "TYPE SOM_MAKER.ERR" *****
echo 'TRUE' > ERROR.ERR
exit
fi
TEC SOM_MCF.SING
```

NOTE: THIS SHELL LEAVES YOU IN THE TEC EDITOR

RUN_SOM

```

Date: 14 SEP 88 14:42 File: /AMCC/SUBMIT/RUN_SOM
echo 'FALSE' > ERROR.ERR
if test -z "$1"
then
  echo '
  **** NO SOM.MCF or TCAL.MCF ENTERED !!!! ***
  **
  **** ENTER "RUN_SOM somfile tcaifile" ****
  '
  echo 'TRUE' > ERROR.ERR
  exit
fi
if test -z "$2"
then
  echo '
  ***** NO TCAL.MCF ENTERED !!!! *****
  **
  **** ENTER "RUN_SOM somfile tcaifile" ****
  '
  echo 'TRUE' > ERROR.ERR
  exit
fi
echo '
***** RUNNING SOM and TCAL *****
'
SOM $1 -M3 -L SOM.ERR
if egrep -s 'No user errors' SOM.ERR
then
  echo '
***** SOM FORMAT OK !!!!! *****
'
else
  echo '
***** SOM FORMAT ERROR !!!!! *****
**
***** PLEASE ENTER "TYPE SOM.ERR" *****
'
  echo 'TRUE' > ERROR.ERR
  exit
fi
TCAL -MCF $2 -M3 2> TCAL.ERR
if egrep -s '.' TCAL.ERR
then
  echo '
***** TCAL FORMAT ERROR !!!!! *****
**
***** PLEASE ENTER "TYPE TCAL.ERR" *****
'
  echo 'TRUE' > ERROR.ERR
  exit
else
  echo '
***** TCAL FORMAT OK !!!!! *****
'
fi

```

Date: 14 SEP 88 14:43 File: /AMCC/SUBMIT/RUN_SMT
This shell script will run AMCCSINFMT
AMCCSINFMT

Date: 14 SEP 88 14:43 File: /AMCC/SUBMIT/RUN_VRC
This shell script will run AMCCVRC and delete any junk files left over
History: * Feb 19, 1988 - original implementation

AMCCVRC
rm ASF*.DAT

