

APPENDIX B – ANTELOPE 4.10

This document summarizes the announcement by BRTT for the ANTELOPE 4.10 release in May 2008. It includes important information for PASSCAL and Flexible Array USERS:

1. HIGHLIGHTS

- ❖ Still compiled as 32 bit (but progress towards 64 bit version)
- ❖ Platforms:
- ❖ SolarisSolaris 10
- ❖ LinuxSuSE Linux 9.3(i586)(instead of 10.3)
- ❖ MacintoshMac OS X 10.4.11(Tiger)(instead of Leopard)
- ❖ Solaris 10 (64 bit)and Matlab extensions no properly compiled

Consideration	4.10	4.9	Maybe 4.10
platform	SolarisSolaris 10 LinuxSuSE Linux 9.3(i586)(instead of 10.3) MacintoshMac OS X 10.4.11(Tiger)(instead of Leopard)	Previous Solaris Version or unsupported versions	Soon to migrate to Solaris 10 or any supported platforms
Length/stage of your experiment Data processing stage	New/very recent About to start Done few services Expect to run experiment for 1 or more years	Almost done processing	Platform compatible and want to update metadata
Use of antelope	Only for seed generation (mseed & dataless)	Interfaces with other programs/scripts analysis only	Run: Required_unix_programs

2. WHAT'S NEW:

64bit certify dbcalibrate displayscal heartbeat2db mkdlsensor nscl
orbaddcalib orblag orbperformance orbproxy tkorblag

3. WHAT'S GONE AWAY:

add_staname b3s2orb cluster cluster_cleanup dbcheckseed dbresample
dbsteimu dsteim editgclgrid ipd2 makegclgrid mktt remodl
rt2orb setbrn taup2locsat ucspd2db ucswf2db

4. NEW CONTRIBUTIONS:

arf	David von Seggern
check_license_expiration	Foley
db2ims	Jennifer Eakins
db2ph	Frank Vernon - no man page
dblocgrad	Frank Vernon - no man page
dbpick_combine	Jennifer Eakins
dbresp	Frank Vernon
dbresp1f	Frank Vernon
db2n	Frank Vernon
delay	Gary Pavlis
deployment2vnd	Jennifer Eakins - produce virtual network definition file (VND) from deployment table
dlreport	Jennifer Eakins
extrd	
glushko	
hypotab	
danq	
ims2dmc	Jennifer Eakins
localmake	Kent Lindquist - construct antelope make.local for local site conditions
logs2dlevnt	Jennifer Eakins
mk_dmc_files	Jennifer Eakins - generate network or single station dataless or VND file with comment on changes
ptt2stt	Gary Pavlis
rtkill	Kent Lindquist - stop and restart processes under Antelope rtexec
tabcalc	Gary Pavlis
ucpwish	Frank Vernon
vnd2deployment	Jennifer Eakins

5. NEW LIBRARIES:

libpool renamed libbrttpool

6. NEW EXAMPLES:

dbbuild:

❖ add_samprate-dbbuild

- ❖ datalogger_sn_swap-dbbuild
- ❖ datalogger_type_swap-dbbuild
- ❖ dl_sens_sn_swap-dbbuild
- ❖ dl_sens_type_swap-dbbuild
- ❖ multiple_sensors_diff-dbbuild
- ❖ multiple_sensors_same-dbbuild
- ❖ mv_station-dbbuild
- ❖ orientation_swap-dbbuild
- ❖ run_dbbuild
- ❖ sensor_sn_orientation_swap-dbbuild
- ❖ sensor_sn_swap-dbbuild
- ❖ sensor_type_swap-dbbuild
- ❖ swapbytes_example.c
- ❖ waveformPkt.c

NOTE : Changes which require configuration changes - incompatibilities with 4.9

libbrttutil is now dependent on libtr, libds, libcoords, and libm. This means that some Makefiles need to specify \$(TRLIBS) instead of \$(STOCKLIBS) after -lbrttutil.

7. MAIN TOOLS WHEN PROCESSING STANDALONE DATA:

- ❖ dbbuild
- ❖ miniseed2days & miniseed2db
- ❖ 1 og2miniseed(rt130),ref2db
- ❖ dbfix_calib,dbe, dbpick
- ❖ dbversdwf & dbverify
- ❖ mk_dataless_seed/mk_dmc_seed
- ❖ seed2db
- ❖ Reftek_dbtiming

8. OTHER TOOLS YOU MAY BE INTERESTED IN:

dbtc, correctdt - perform time corrections
 alter_timestamps - fix times in database and/or miniseedrecords
 build_baler_data - build clean database from multiple baler dbs

9. INTERFACES :

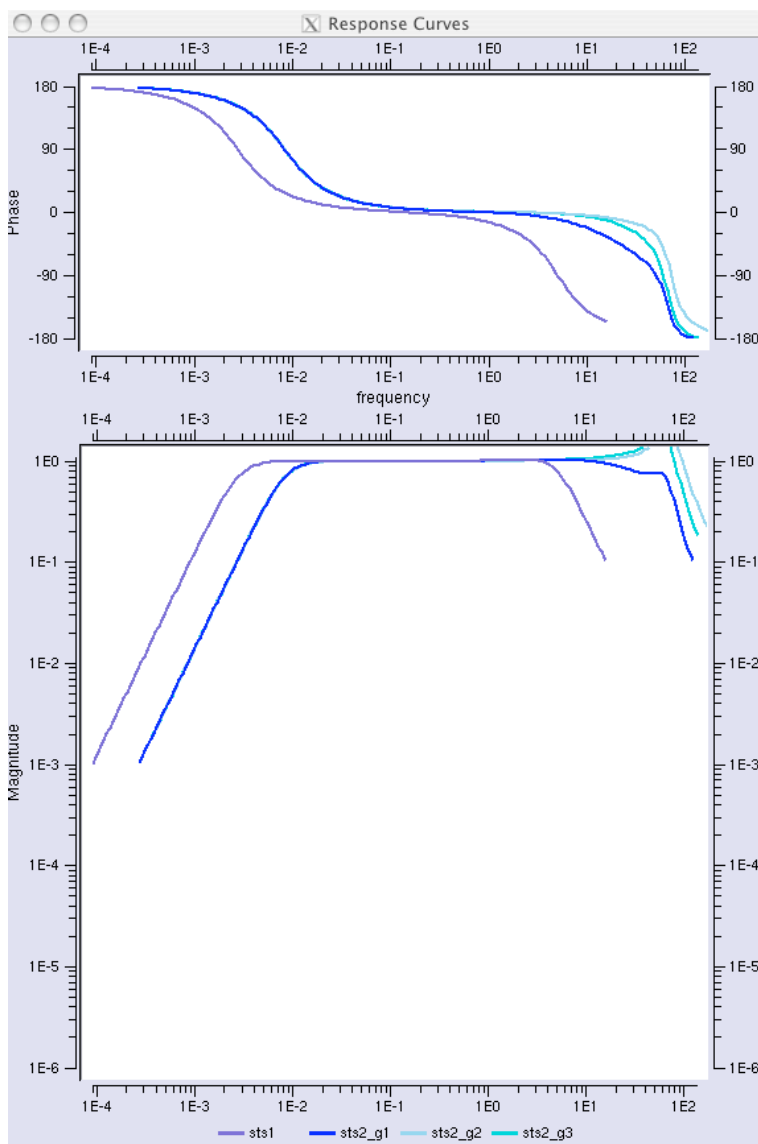
- ❖ PYTHON
- ❖ GMT
- ❖ MATLAB

- ❖ ORB PHP INTERFACE
- ❖ PERL
- ❖ PERLTK B PLOT
- ❖ TK
- ❖ TCL/TK

10. REAL TIME

- ❖ Q330
- ❖ RT130
- ❖ ORBXFER2
- ❖ ORB2ORB
- ❖ Orbaddcalib
- ❖ Miniseed2orb
- ❖ orb2refdb -

11. RESPONSES & CHECKS



Although the mechanical part of the STS-2 seismometer has not changed since 1990, the electronic component has been redesigned twice.

There are three different "electronic" generations, which differ in the transfer function at frequencies above 10 Hz.

sts2_g1 shipped 04/90-06/95
 sts2_g2 shipped 06/95-02/98
 sts2_g3 shipped 02/98 thru present

If you have any questions please consult VLSTGEN2-ext.pdf or contact a Streckeisen representative

Notice that the old sts2.pf file has been moved to old_sts2.pf!

This is done to make sure that future response databases build properly.