

Fresh from the Drawing board

A review and preview

Daniel Quinlan
BRTT, Inc.

64 bit?

Not in the immediate future

- no 64 bit tcl/tk
- 64 bit perl doesn't compile on sun
- no 64 bit X11 on mac
- only some x86 machines are capable
- may be 64 bit orbserver on sun in 4.8

New things

* Marmot

- ☀ low power Linux field processor with small Antelope subset

KINEMATRICS, INC.
MARMOT

BRTT
www.brtt.com

Manufactured in USA
By Kinematics, Inc., Pasadena, CA
www.kinematics.com

POWER	ON
SYSTEM	ON
ACTIVITY	ON
ACTIVITY	OFF
ACTIVITY	OFF
ACTIVITY	OFF

SERIAL 2 SERIAL 1 POWER

ENET 2 ENET 1

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SERIAL 2 SERIAL 1 POWER

ENET 2 ENET 1

QUANTERRA Q330
SENSOR A

New things

- * cd2orb improved, thanks to feedback and assistance from Niko
- * cdorb2db -- orb2db for cd1 data
1 wfdisc record/day

New things

dbbuild

- * new menu organization for dataloggers and sensors
- * individual sensitivities by sensor output
- * individual gains by data logger input leads
- * serial number lookup of sensitivities and gains

Master Database Construction

Help

Database Configuration

Configuration time: 1/1/1992 Comment: _____

Network

net network name

KN Kyrgyz Seismic Telemetry Network

Station

sta	latitude	longitude	elevation	station name
KBK	42.6564	74.9478	1.7600	Karagaibulak, Kyrgyzstan

Datalogger

Please select datalogger pf

serial number dlist

Sensor

? Please select sensor pf Clear

		edepth	band	rsptype	loc code
1	Geospace				
2	Geotech				
3	Guralp				
4	Kinometrics				
5	Mark Products				
6	Nanometrics				
	Sprengnether				
	Streckeisen				
	Tekelec				
	Terratech				
	unknown				

Add Quit

Database Configuration

Help

Configuration time

Comment

9/04/2005 1:37:18

Network

net network name

AK Alaska

Station

sta latitude longitude elevation station name

CM6 64.88 -147.55 .444 cng6td test

Datalogger

cng6d

Guralp CMG6TD Datalogger

pf

serial number

dista

T6055d

CMG6

s/n filename

s/n pf

/opt/antelope/4.7p/data/instruments/sn/cng6td/T6055d.pf

Sensor

cng6t

Guralp CMG6TD Sensor

pf

Clear

1

serial number depth band rsptype loc code

2

T6055t 0.0 b V

3

s/n filename

s/n pf

4

/opt/antelope/4.7p/data/instruments/sn/cng6td/T6055t.pf

5

axis hang vang sensitivity datalogger gain preamp gain preamp stage lead

6

Z	0	0	11e-7	1.20509e-6			↓	ch1
N	0	90	12e-7	1.19476e-6			↓	ch2
E	90	90	13e-7	1.25043e-6			↓	ch3

sample rate

on

chan loc dchan

on

chan loc dchan

on

chan loc dchan

50sps

↓

BHZ

BHN

BHE

↓

Add

Quit

New things

- * dlmon evolutionary improvements for large networks
- * orbxfer2

new lag statistic

```
lag      thread    %pkt    pktid   who@where      command
0.00     99921    0.489   2363162 rt@            orblatency -m AZ.* -p 300 :anza db/anza
0.00     99618    0.489   2363162 rt@            orb2db -v -m match -r reject -S state/orb2dbAZ :anza
0.00     15       0.489   2363161 rt@mw         orbmonrtd
0.00     20       0.489   2363161 rt@mw         orbmonrtd
0.00     67       0.489   2363161 rt@            orbdetect -out :anza :anza db/anza
0.00     23       0.489   2363161 rt@mw         orbmonrtd
0.00     21       0.489   2363161 rt@bbarray    orb2orb 132.239.4.29:anza : -m AZ.* -r reject
0.00     84       0.489   2363161 rt@            par2db -i 60 :anza param/anza_par
0.00     154507   0.489   2363161 rt@igpprt     orbmonrtd
0.00     18       0.489   2363133 rt@csulb.edu  orb2orb -S state/orb2orb_AZdb -m match -r ./MGENC/.*|./log
0.00     158041   0.489   2363118 danq@agate    orbstat -i igpprt: lag
0.00     19       0.489   2363116 rt@mercali    orb2orb igpprt:anza :status -m match
0.00     99624    0.489   2363110 rt@            orb2db -m match -S state/orb2dbCI :anza db/anza
0.00     14       0.489   2363106 rt@bbarray    orb2orb igpprt:anza :demo -m AZ_BV.*
0.00     157911   0.489   2362085 rt@            orbassoc -start OLDEST -v -select /db/detection :anza :anza ttgrid-
local_regional ttgrid-tele
0.00     157914   0.489   2362085 rt@            orb2dbt -state state/orb2dbt -overwrite :anza db/anza
0.00     157969   0.488   2360244 rt@mercali    /opt/antelope/4.7/bin/orbpf2db igpprt:anza db/anza_orbregistry
0.01     17       0.486   2346353 rt@csulb.edu  orbxfer -v -d db 132.239.4.29:anza
0.07     154504   0.459   2216489 rt@            /opt/antelope/4.7/bin/awish /opt/antelope/4.7/bin/rtm --
0.44     157917   0.298   1442123 rt@lindquist  orb2dbt -reject /db/(detection|trigger) -state state/orb2dbt -
overwrite igpprt db/anza :
0.54     158039   0.257   1240299 rt@            orbmag -state state/orbmag :anza :anza db/anza
1.00     24       -0.000   -1 rt@            qt2orb -dataorb :anza -cmdorb :anza -calib_db db/anza
1.00     25       -0.000   -1 rt@            qt2orb -dataorb :anza -cmdorb :anza -calib_db db/anza
max lag = 1.00
```

Changes you might have missed?

- * references in parameter files

- * eg,

dir	data/&sta/&chan
-----	-----------------

sta	AKA
-----	-----

chan	BHE
------	-----

Changes you might have missed?

- * schema table extensions
- * additional tables are described in `css3.0.ext` directory
- * `rt1.0` is no longer needed
- * `dbverify`, `dbe` parameter files simplified

New things

- * dbpick: Danny is working on basic improvements suggested by Niko, and hopes to have beta version in near future