

dbops : USArray/ANF data center operations



Jennifer Eakins

UCSD, ANF

Typical rtsystem setup

```
foley-4-72{rt}381% ls
bin/          dbmaster/    logs/        pf/          rtlogs/     state/
db/          idserver/   orb/         rtxec.pf    rtsys/
```

- db
- dbmaster
- logs
- pf
- rtxec.pf
- bin

Actual ANF rtsystem/

```
foley-4-72{rt}393% ls
bin/          logs/        orbStatus/   q330logs@
db/           orb/        orbV9/       rtexec.pf
dbmaster/    orbAG/      orb_cmd/     rtsys/
dbops/       orbHN/      pf/          soh_list
diskserver/  orbOU/      prelim@     state/
images/      orbPrelim/  prelim_BB@  status@
```

- dbops/
- Extra orb* directories
- diskserver/
- images/
- etc.



Why bother with dbops?

- Needed single location to maintain tables
- dbmaster/ changes regularly (1-2 times per week)
- db/ contains “seismic” tables
- Easy to tie in via descriptor file

dbops listing

```
anfops-pri{rt}18% ls
dbverify.pf          usarray.balerlist    usarray.dmcbull
prelim              usarray.comm         usarray.dmcfiles
prelim.q330comm     usarray.deployment   usarray.q330comm
usarray             usarray.dlevent
usarray_eakins      usarray.dlsite
```

- dbops is used to track non-standard operational information about baler data recovery, comms, station inclusion/operating time, dataloggers and datalogger interactions, and file transfer
- All tables are extensions to css3.0

comms

```
comm
Table for USArray station communications
Table designed to handle more detail in station communications including:
commtype: string field that would allow specifications like VSAT, CDM A, regular_internet, DSL, etc.
provider: string field allowing specifications like: Hughes, Verizon, SBC, etc.
Primary key:      sta time::endtime
Record Size (bytes): 128
Records:         653
Size (bytes):    83584
Permissions:     may be modified
File:            /export/home/rt/rtsystems/usarray/dbops/usarray.comm
```

sta	time	endtime	commtype	provider	lddate
-----	------	---------	----------	----------	--------

Dismiss Quit

- Time history of communications type and provider for each station
- Stations with “no comms” also tracked
- Currently no script to auto-populate
- Used by Rob Newman’s web scripts

comms table

0	sta	time	endtime	commtype	provider
	109C	5/04/2004 (125) 23:00:00.00000		vsat	spacenet
	112A	5/06/2007 (126) 0:00:00.00000		cdma poc	cingular
	113A	5/08/2007 (128) 0:00:00.00000		cdma poc	cingular
	114A	2/05/2008 (036) 0:00:00.00000		cdma poc	verizon
	115A	3/23/2006 (082) 23:00:00.00000		vsat	Wild Blue
	116A	3/20/2006 (079) 20:32:00.00000		cdma poc	verizon
	117A	4/07/2007 (097) 0:42:00.00000		cdma poc	verizon
	118A	4/06/2007 (096) 0:45:00.00000		cdma poc	verizon
	119A	3/11/2007 (070) 0:00:00.00000	3/27/2008 (087) 0:00:00.00000	cdma poc	verizon
	119A	3/27/2008 (087) 1:06:40.00000		cdma poc	cingular
	120A	2/02/2008 (033) 0:00:00.00000		cdma poc	verizon
	121A	2/12/2008 (043) 0:00:00.00000		cdma poc	verizon
	122A	2/01/2008 (032) 0:00:00.00000		cdma poc	verizon
	124A	2/27/2008 (058) 0:00:00.00000		vsat	Wild Blue
	125A	3/13/2008 (073) 0:00:00.00000		cdma poc	cingular
	126A	3/15/2008 (075) 0:00:00.00000		cdma poc	cingular
	127A	3/16/2008 (076) 0:00:00.00000		cdma poc	cingular
	214A	5/07/2007 (127) 0:00:00.00000	9/08/2007 (251) 0:20:00.00000	cdma poc	cingular
	214A	9/08/2007 (251) 0:21:00.00000		vsat	Wild Blue
	216A	3/02/2007 (061) 0:00:00.00000		cdma poc	verizon
	217A	3/03/2007 (062) 0:00:00.00000		cdma poc	verizon
	218A	3/05/2007 (064) 0:00:00.00000		cdma poc	verizon
	219A	3/10/2007 (069) 0:00:00.00000		vsat	Wild Blue
	220A	2/15/2008 (046) 0:00:00.00000		cdma poc	verizon
	221A	2/11/2008 (042) 0:00:00.00000		cdma poc	verizon

Active: Network

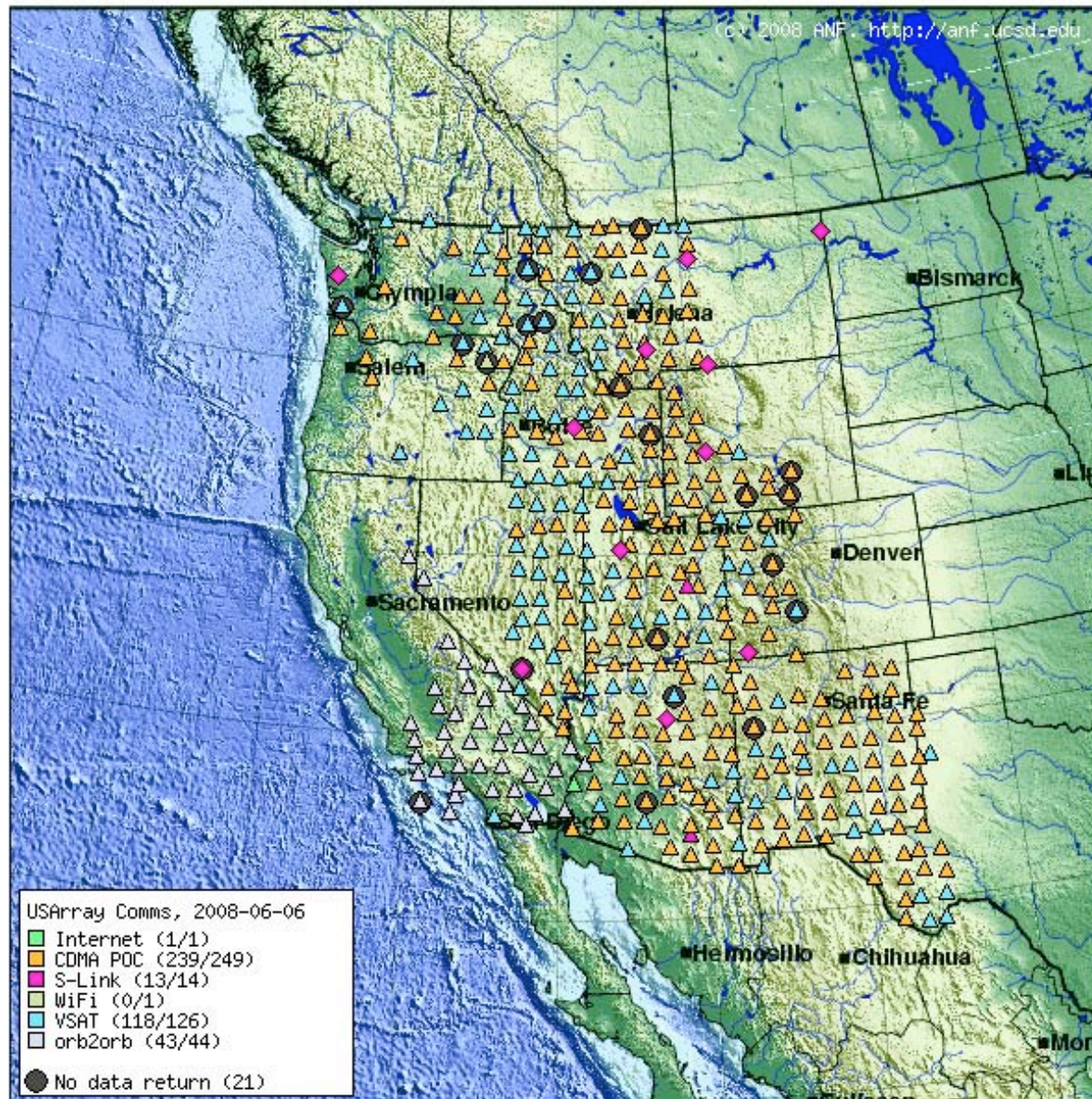
Active: Comms

Active: Dlogger

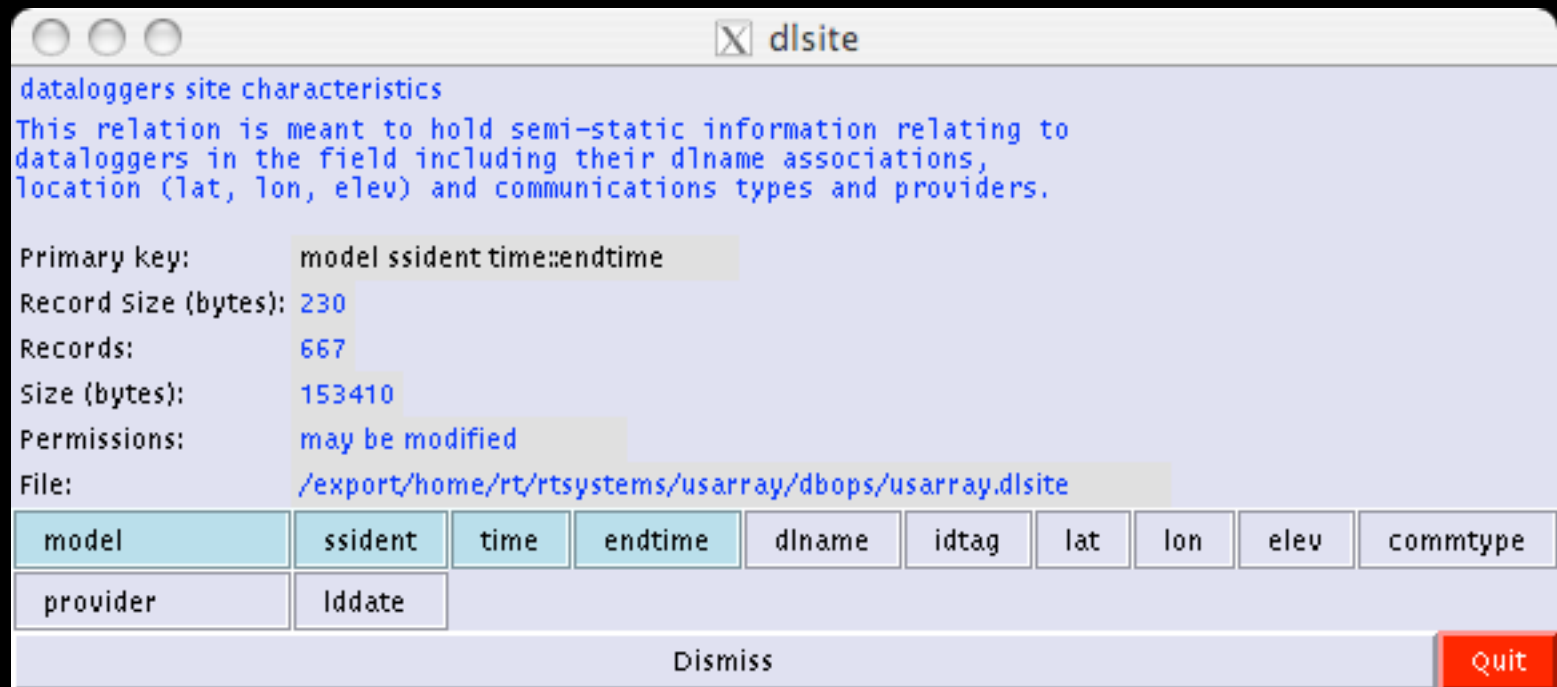
Active: Sensor

Decommissioned

Active stations: By communications type and provider



dlsite



```
dataloggers site characteristics
This relation is meant to hold semi-static information relating to
dataloggers in the field including their dlname associations,
location (lat, lon, elev) and communications types and providers.

Primary key:      model ssident time::endtime
Record Size (bytes): 230
Records:         667
Size (bytes):    153410
Permissions:     may be modified
File:            /export/home/rt/rtsystems/usarray/dbops/usarray.dlsite
```

model	ssident	time	endtime	dlname	idtag	lat	lon	elev	commtyp
provider	lddate								

Dismiss Quit

- Ties q330 serial # (ssident) with additional information.
- Some overlap/duplication with comms
- Used by dlmon
- Use q330_location to populate

dlsite table

usarray dlsite

File Edit View Options Graphics Help

0	model	ssidnt	time	dlname	idtag	lat	lon	elev	commttype	provider
	q330	0100000EBD823C1D	10/16/2007 (289) 23:44:14.23038	TA_109C	2124	32.8889	-117.1050	0.1649	vsat	spacenet
	q330	0100000EBD811A57	5/17/2007 (137) 18:56:57.93432	TA_112A	2146	32.5355	-114.5803	0.0711	cdma poc	cingular
	q330	0100000EBD2F23BD	5/17/2007 (137) 18:56:57.93432	TA_113A	2093	32.7685	-113.7667	0.1076	cdma poc	cingular
	q330	0100000B699AC6D8	2/25/2008 (056) 21:16:48.97228	TA_114A	1536	32.7513	-112.8830	0.2688	cdma poc	verizon
	q330	010000044DB841ED	5/02/2006 (122) 20:23:18.61433	TA_115A	701	32.7006	-112.2279	0.6015	vsat	Wild Blue
	q330	0100000EBD1DE212	3/12/2007 (071) 15:48:46.23470	TA_115A	2090	32.7006	-112.2279	0.5967	vsat	Wild Blue
	q330	010000044D98100C	4/27/2006 (117) 22:22:00.90013	TA_116A	696	32.5618	-111.7043	0.4820	cdma poc	verizon
	q330	0100000B69D58E67	3/12/2007 (071) 15:48:46.23470	TA_116A	1154	32.5618	-111.7043	0.4832	cdma poc	verizon
	q330	010000044DA95891	4/26/2007 (116) 18:07:16.79631	TA_117A	718	32.5716	-110.7394	1.5324	cdma poc	verizon
	q330	0100000B6A212FDO	4/26/2007 (116) 18:07:16.79631	TA_118A	1123	32.6398	-109.9697	1.4691	cdma poc	verizon
	q330	010000044D980057	4/26/2007 (116) 18:07:16.79631	TA_119A	722	32.7662	-109.3030	1.3975	cdma poc	verizon
	q330	0100000EBDA465C1	2/25/2008 (056) 21:16:48.97228	TA_120A	2097	32.5466	-108.6330	1.5258	cdma poc	verizon
	q330	010000044D9DCC67	2/25/2008 (056) 21:16:48.97228	TA_121A	755	32.5323	-107.7850	1.6465	cdma poc	verizon
	q330	0100000A2889641C	2/25/2008 (056) 21:16:48.97228	TA_122A	873	32.6995	-107.0005	1.3343	cdma poc	verizon
	q330	0100000DAF5D6193	3/03/2008 (063) 22:09:02.93081	TA_124A	1918	32.7002	-105.4544	2.0699	vsat	Wild Blue
	q330	0100000EBD8F60A2	6/27/2007 (178) 17:36:49.83598	TA_214A	2148	31.9560	-112.8115	0.5292	cdma poc	cingular
	q330	010000044D82AB32	3/12/2007 (071) 15:48:46.23470	TA_216A	754	32.0021	-111.4574	0.9218	cdma poc	verizon
	q330	01000008E9176D66	3/12/2007 (071) 15:48:46.23470	TA_217A	631	31.7748	-110.8162	1.4070	cdma poc	verizon
	q330	01000008E9176D66	11/17/2007 (321) 2:53:57.04822	TA_217A	631	31.7748	-110.8162	1.4079	cdma poc	verizon
	q330	010000044DC2D92D	3/12/2007 (071) 15:48:46.23470	TA_218A	784	31.9737	-110.0465	1.4753	cdma poc	verizon
	q330	0100000B69D75A11	4/26/2007 (116) 18:07:16.79631	TA_219A	1512	31.9988	-109.2591	1.5558	vsat	Wild Blue
	q330	0100000B69D713F2	2/25/2008 (056) 21:16:48.97228	TA_220A	1147	31.9041	-108.5267	1.3857	cdma poc	verizon
	q330	0100000B69D6E014	2/25/2008 (056) 21:16:48.97228	TA_221A	1135	32.0094	-107.7782	1.2652	cdma poc	verizon
	q330	0100000B6985AA75	2/25/2008 (056) 21:16:48.97228	TA_222A	1520	32.1045	-107.1013	1.3200	cdma poc	verizon
	q330	0100000B6976A23C	3/03/2008 (063) 21:52:55.29800	TA_224A	1555	32.0760	-105.5226	1.4737	vsat	Wild Blue

667

Dismiss

deployment

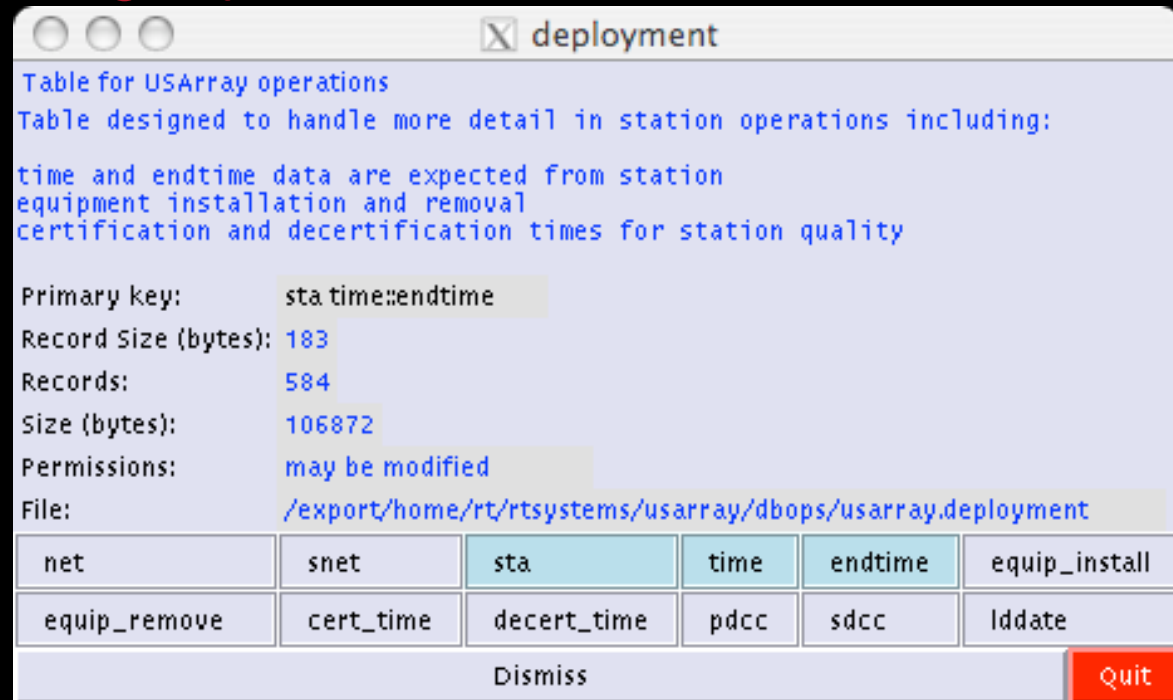


Table for USArray operations
Table designed to handle more detail in station operations including:
time and endtime data are expected from station
equipment installation and removal
certification and decertification times for station quality

Primary key: sta time::endtime
Record Size (bytes): 183
Records: 584
Size (bytes): 106872
Permissions: may be modified
File: /export/home/rt/rtsystems/usarray/dbops/usarray.deployment

net	snet	sta	time	endtime	equip_install
equip_remove	cert_time	decert_time	pdcc	sdcc	lddate

Dismiss Quit

- Defines operational time for stations used in your experiment (cert_time::decert_time)
- No automatic population
- deployment2vnd script generates csv VND file for DMC

deployment table

Time of first/last data at DMC
(should be same as comm table prior to resend of old data)

net	snet	sta	time	endtime	equip install	equip remove	cert time	decert time	pdcc	sdcc	lddate
US-TA	TA	004C	5/25/2005 (143) 17:46:00.00000	12/31/2599 (365) 23:59:59.00000	5/19/2005 (139) 0:00:00.00000	12/31/2599 (365) 23:59:59.00000	5/25/2005 (145) 0:00:00.00000	12/31/2599 (365) 23:59:59.00000	IRIS DMC		8/01/2005 (213) 19:49:24.05118
US-TA	TA	005C	6/07/2005 (159) 21:22:00.00000	12/31/2599 (365) 23:59:59.00000	6/07/2005 (158) 0:00:00.00000	12/31/2599 (365) 23:59:59.00000	6/13/2005 (164) 0:00:00.00000	12/31/2599 (365) 23:59:59.00000	IRIS DMC		8/01/2005 (213) 19:49:24.05707
US-TA	TA	003C	6/28/2005 (179) 21:05:00.00000	12/31/2599 (365) 23:59:59.00000	6/28/2005 (178) 0:00:00.00000	12/31/2599 (365) 23:59:59.00000	6/30/2005 (181) 0:00:00.00000	12/31/2599 (365) 23:59:59.00000	TRTS DMC		8/01/2005 (213) 19:49:24.06309
US-IA	IA	006C	6/28/2005 (179) 20:57:00.00000	12/31/2599 (365) 23:59:59.00000	6/28/2005 (179) 0:00:00.00000	12/31/2599 (365) 23:59:59.00000	6/30/2005 (181) 0:00:00.00000	12/31/2599 (365) 23:59:59.00000	IRIS DMC		8/01/2005 (213) 19:49:24.07288
US-TA	TA	005C	6/29/2005 (180) 20:50:00.00000	12/31/2599 (365) 23:59:59.00000	6/29/2005 (180) 0:00:00.00000	12/31/2599 (365) 23:59:59.00000	6/30/2005 (181) 0:00:00.00000	12/31/2599 (365) 23:59:59.00000	IRIS DMC		8/01/2005 (213) 19:49:24.07928
US-TA	TA	004C	8/13/2005 (223) 0:00:00.00000	12/31/2599 (365) 23:59:59.00000	8/13/2005 (223) 0:00:00.00000	12/31/2599 (365) 23:59:59.00000	8/16/2005 (228) 17:00:00.00000	12/31/2599 (365) 23:59:59.00000	IRIS DMC		8/16/2005 (228) 21:27:18.63695
US-TA	TA	002C	8/13/2005 (223) 21:29:00.00000	12/31/2599 (365) 23:59:59.00000	8/30/2005 (181) 0:00:00.00000	12/31/2599 (365) 23:59:59.00000	8/16/2005 (228) 17:00:00.00000	12/31/2599 (365) 23:59:59.00000	TRTS DMC		8/16/2005 (228) 21:28:53.86812
US-IA	IA	002C	7/31/2005 (212) 23:14:00.00000	12/31/2599 (365) 23:59:59.00000	8/29/2005 (180) 0:00:00.00000	12/31/2599 (365) 23:59:59.00000	8/16/2005 (228) 17:00:00.00000	12/31/2599 (365) 23:59:59.00000	IRIS DMC		11/01/2005 (305) 19:54:40.26579
US-TA	TA	004C	12/05/2004 (340) 0:55:00.00000	12/31/2599 (365) 23:59:59.00000	12/04/2004 (339) 0:00:00.00000	12/31/2599 (365) 23:59:59.00000	6/13/2005 (164) 0:00:00.00000	12/31/2599 (365) 23:59:59.00000	IRIS DMC		8/02/2005 (214) 18:25:39.01411
US-TA	TA	SI TE	5/17/2005 (137) 21:23:00.00000	12/31/2599 (365) 23:59:59.00000	5/16/2005 (136) 0:00:00.00000	12/31/2599 (365) 23:59:59.00000	7/12/2005 (193) 0:00:00.00000	12/31/2599 (365) 23:59:59.00000	IRIS DMC		9/22/2005 (265) 17:41:32.11861
US-TA	TA	SD8C	8/02/2005 (214) 22:52:36.00000	12/31/2599 (365) 23:59:59.00000	8/02/2005 (214) 0:00:00.00000	12/31/2599 (365) 23:59:59.00000	8/05/2005 (217) 23:48:00.00000	12/31/2599 (365) 23:59:59.00000	TRTS DMC		8/05/2005 (217) 23:38:13.02900
US-IA	IA	005C	8/11/2005 (220) 4:15:00.00000	12/31/2599 (365) 23:59:59.00000	8/05/2005 (217) 0:00:00.00000	12/31/2599 (365) 23:59:59.00000	8/16/2005 (228) 17:00:00.00000	12/31/2599 (365) 23:59:59.00000	IRIS DMC		8/16/2005 (228) 21:29:21.40595
US-TA	TA	RD6C	8/06/2005 (218) 10:13:00.00000	12/31/2599 (365) 23:59:59.00000	8/04/2005 (216) 0:00:00.00000	12/31/2599 (365) 23:59:59.00000	8/16/2005 (228) 17:00:00.00000	12/31/2599 (365) 23:59:59.00000	IRIS DMC		11/01/2005 (305) 19:55:01.77283
US-TA	TA	RD7C	8/03/2005 (215) 23:20:00.00000	12/31/2599 (365) 23:59:59.00000	8/03/2005 (215) 0:00:00.00000	12/31/2599 (365) 23:59:59.00000	8/06/2005 (218) 7:15:00.00000	12/31/2599 (365) 0:00:00.00000	IRIS DMC		8/06/2005 (218) 7:13:18.01829
US-TA	TA	003C	7/31/2005 (212) 22:35:00.00000	12/31/2599 (365) 23:59:59.00000	7/12/2005 (193) 0:00:00.00000	12/31/2599 (365) 23:59:59.00000	8/16/2005 (228) 17:00:00.00000	12/31/2599 (365) 23:59:59.00000	TRTS DMC		11/01/2005 (305) 19:55:25.83652
US-IA	IA	002C		12/31/2599 (365) 23:59:59.00000	7/29/2005 (201) 0:00:00.00000	12/31/2599 (365) 23:59:59.00000		12/31/2599 (365) 23:59:59.00000	IRIS DMC		8/16/2005 (228) 21:25:36.81889
US-TA	TA	PD1C	8/24/2005 (236) 21:27:00.00000	12/31/2599 (365) 23:59:59.00000	8/24/2005 (236) 0:00:00.00000	12/31/2599 (365) 23:59:59.00000	8/25/2005 (237) 18:30:00.00000	12/31/2599 (365) 23:59:59.00000	IRIS DMC		8/25/2005 (237) 22:31:32.22897
US-TA	TA	001C		12/31/2599 (365) 23:59:59.00000	8/24/2005 (236) 0:00:00.00000	12/31/2599 (365) 23:59:59.00000		12/31/2599 (365) 23:59:59.00000	IRIS DMC		8/31/2005 (243) 22:50:08.16463
US-TA	TA	SD6C	10/10/2005 (283) 9:40:00.00000	12/31/2599 (365) 23:59:59.00000	10/08/2005 (281) 0:00:00.00000	12/31/2599 (365) 23:59:59.00000	10/17/2005 (290) 19:00:00.00000	12/31/2599 (365) 23:59:59.00000	IRIS DMC		10/17/2005 (290) 19:21:27.99795
US-IA	IA	003A	10/20/2005 (293) 22:58:00.00000	12/31/2599 (365) 23:59:59.00000	10/20/2005 (293) 0:00:00.00000	12/31/2599 (365) 23:59:59.00000	10/25/2005 (298) 18:00:00.00000	12/31/2599 (365) 23:59:59.00000	IRIS DMC		10/25/2005 (298) 19:28:32.93550
US-TA	TA	ED4A	10/21/2005 (294) 21:05:00.00000	12/31/2599 (365) 23:59:59.00000	10/21/2005 (294) 0:00:00.00000	12/31/2599 (365) 23:59:59.00000	10/25/2005 (298) 18:00:00.00000	12/31/2599 (365) 23:59:59.00000	IRIS DMC		10/25/2005 (298) 18:28:24.68912
US-TA	TA	DD4A	10/24/2005 (297) 19:40:00.00000	12/31/2599 (365) 23:59:59.00000	10/24/2005 (297) 0:00:00.00000	12/31/2599 (365) 23:59:59.00000	10/25/2005 (298) 18:00:00.00000	12/31/2599 (365) 23:59:59.00000	IRIS DMC		10/25/2005 (298) 18:28:40.67611
US-TA	TA	FD4A	10/25/2005 (298) 20:27:00.00000	12/31/2599 (365) 23:59:59.00000	10/25/2005 (298) 0:00:00.00000	12/31/2599 (365) 23:59:59.00000	11/01/2005 (305) 18:30:00.00000	12/31/2599 (365) 23:59:59.00000	TRTS DMC		10/25/2005 (298) 18:28:40.67611
US-IA	IA	HD4A	10/27/2005 (300) 22:55:00.00000	12/31/2599 (365) 23:59:59.00000	10/27/2005 (300) 0:00:00.00000	12/31/2599 (365) 23:59:59.00000	11/01/2005 (305) 18:30:00.00000	12/31/2599 (365) 23:59:59.00000	IRIS DMC		10/25/2005 (298) 18:28:40.67611
US-TA	TA	ED5A	10/29/2005 (302) 7:45:00.00000	12/31/2599 (365) 23:59:59.00000	10/28/2005 (301) 0:00:00.00000	12/31/2599 (365) 23:59:59.00000	11/01/2005 (305) 18:30:00.00000	12/31/2599 (365) 23:59:59.00000	IRIS DMC		10/25/2005 (298) 18:28:40.67611

Time seismometer is installed/removed
(should be same as site table ondate/offdate)

Time data is transferred from prelim to production orb
(about the time that new dataless is made and email is sent)

Active: Network

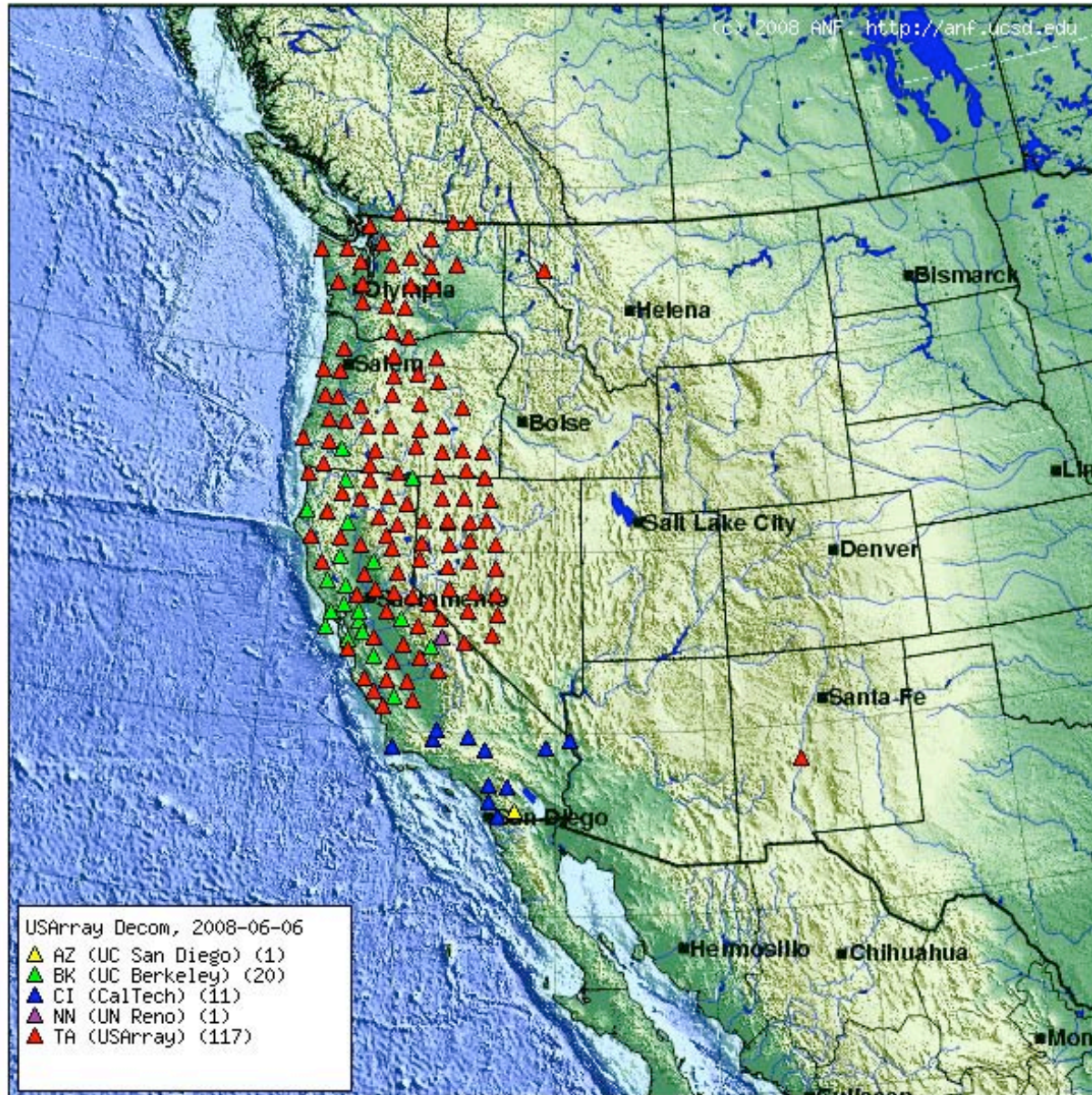
Active: Comms

Active: Dlogger

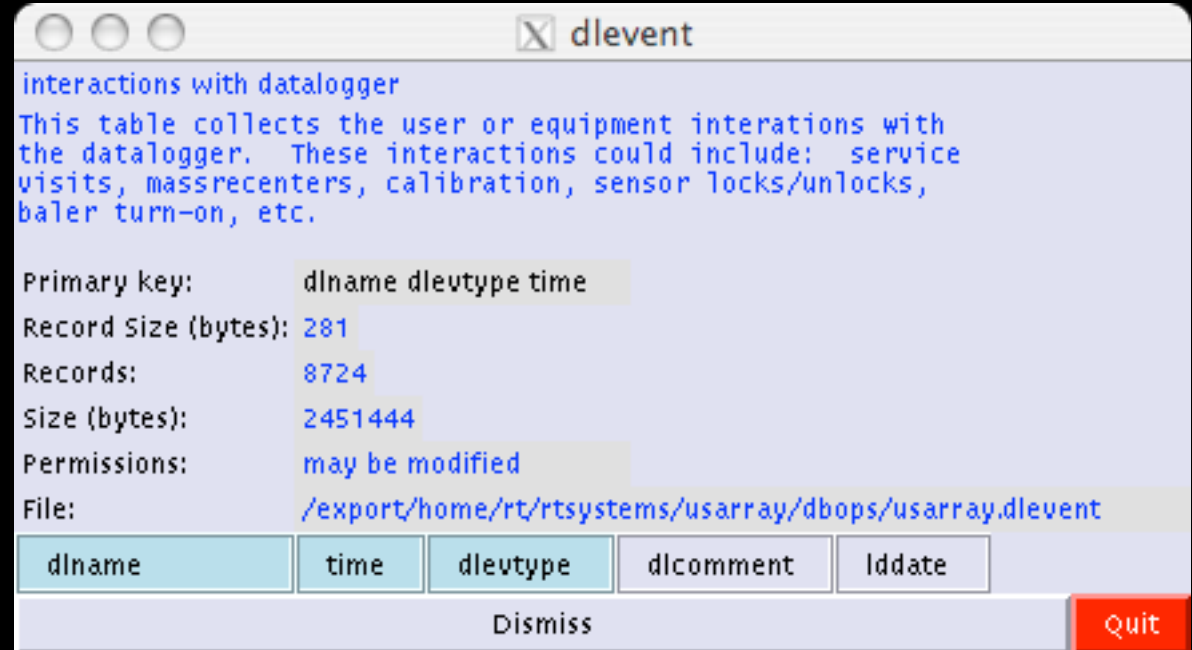
Active: Sensor

Decommissioned

Decommissioned stations



dlevent



```
interactions with datalogger
This table collects the user or equipment interactions with
the datalogger. These interactions could include: service
visits, massrecorders, calibration, sensor locks/unlocks,
baler turn-on, etc.

Primary key:      dlname dlevtype time
Record Size (bytes): 281
Records:         8724
Size (bytes):    2451444
Permissions:     may be modified
File:            /export/home/rt/rtsystems/usarray/dbops/usarray.dlevent
```

dlname	time	dlevtype	dlcomment	lddate
--------	------	----------	-----------	--------

Dismiss Quit

- Database record of “events” from q330 logs
- logs2dlevent populates table
- dlreport summarizes events

dlevent table

usarray dlevent

File Edit View Options Graphics Help

ok X UMSG ip = 192.169.1.41 (?), msg = 2008-06-05 1516 mst. Mucking the vault-hcp

8699	dlname	time	dlevtype	dlcomment
	TA_D10A	6/04/2008 (156) 18:30:05.98900	massrecenter	Sending massrecenter cmd with 0x1 for 8.000000 secs.
	TA_F08A	6/05/2008 (157) 17:57:48.20200	service	UMSG ip = 10.172.53.5 (?), msg = Station Removal TM
	TA_O19A	6/05/2008 (157) 18:30:05.33500	massrecenter	Sending massrecenter cmd with 0x1 for 8.000000 secs.
	TA_W19A	6/05/2008 (157) 18:30:36.01900	massrecenter	Sending massrecenter cmd with 0xe for 8.000000 secs.
	TA_G06A	6/05/2008 (157) 21:49:04.97300	sensor_cal	LOG Calibration start waveform=0x3, amplitude=1, duration=300,
	TA_G06A	6/05/2008 (157) 22:24:06.27800	sensor_cal	LOG Calibration start waveform=0x3, amplitude=1, duration=300,
	TA_K17A	6/05/2008 (157) 6:30:02.97200	massrecenter	Sending massrecenter cmd with 0x1 for 8.000000 secs.
	TA_G08A	6/05/2008 (157) 15:56:13.54600	sensor_lock	Sending masslock cmd with 0x2 for 8.000000 secs.
	TA_G08A	6/05/2008 (157) 16:28:40.18300	sensor_unlock	Sending massunlock cmd with 0x4 for 8.000000 secs.
	TA_F04A	6/05/2008 (157) 6:31:01.70400	sensor_cal	LOG Calibration start waveform=0x3, amplitude=1, duration=300,
	TA_F04A	6/05/2008 (157) 6:49:01.73000	sensor_cal	LOG Calibration start waveform=0x3, amplitude=1, duration=300,
	TA_F04A	6/05/2008 (157) 7:13:01.71100	sensor_cal	LOG Calibration start waveform=0x2, amplitude=1, duration=5400,
	TA_F04A	6/05/2008 (157) 9:00:01.71500	sensor_cal	LOG Calibration start waveform=0x2, amplitude=1, duration=5400,
	TA_F03A	6/05/2008 (157) 6:29:01.84200	sensor_cal	LOG Calibration start waveform=0x3, amplitude=1, duration=300,
	TA_F03A	6/05/2008 (157) 6:47:01.84800	sensor_cal	LOG Calibration start waveform=0x3, amplitude=1, duration=300,
	TA_F03A	6/05/2008 (157) 7:04:32.58400	sensor_cal	LOG Calibration aborted calbitmap=0x3, monbitmap=0x4
	TA_F03A	6/05/2008 (157) 7:12:01.79000	sensor_cal	LOG Calibration start waveform=0x2, amplitude=1, duration=5400,
	TA_F03A	6/05/2008 (157) 8:59:01.78200	sensor_cal	LOG Calibration start waveform=0x2, amplitude=1, duration=5400,
	TA_P16A	6/05/2008 (157) 6:30:33.61200	massrecenter	Sending massrecenter cmd with 0x1 for 8.000000 secs.
	TA_X17A	6/05/2008 (157) 22:16:04.72700	service	UMSG ip = 192.169.1.41 (?), msg = 2008-06-05 1516 mst. Mucking
	TA_X17A	6/05/2008 (157) 23:30:04.39800	massrecenter	Sending massrecenter cmd with 0x1 for 8.000000 secs.
	TA_X17A	6/05/2008 (157) 23:35:50.54900	massrecenter	Sending massrecenter cmd with 0x1 for 8.000000 secs.
	TA_115A	6/05/2008 (157) 13:53:03.78600	service	UMSG ip = 192.169.1.41 (?), msg = 2008-06-05 0658 mst. Replaced
	TA_J09A	6/05/2008 (157) 22:59:24.69700	sensor_lock	Sending masslock cmd with 0x2 for 8.000000 secs.
	TA_J09A	6/05/2008 (157) 23:04:26.47700	sensor_unlock	Sending massunlock cmd with 0x4 for 8.000000 secs.

8724

Dismiss

dlevant “report”

foley-4-72 dlevant report by station: 45 events — daily reports

Delete Reply Reply All Forward Print Junk To Do

From: rt@ucsd.edu
Subject: foley-4-72 dlevant report by station: 45 events
Date: May 13, 2008 9:45:02 PM PDT
To: anf@ucsd.edu

Datalogger event report for 7 days beginning Wednesday May 07 2008-128

Report sorted by station

Event Information
Total # of dlevnts: 45

TA_126A
service 5/10/08 (131) 18:52:36:528 UMSG ip = 10.172.53.5 (?), msg = 2008-05-10 1249 mdt. Changed commo from serial&gsm to ethernet&cdma-hcp

TA_A06A
sensor_cal 5/07/08 (128) 20:59:04:777 LOG Calibration start waveform=0x3, amplitude=1, duration=300, calbitmap=0x3, monbitmap=0x4, period=1
sensor_cal 5/07/08 (128) 21:38:17:153 LOG Calibration start waveform=0x3, amplitude=1, duration=300, calbitmap=0x5, monbitmap=0x2, period=1
sensor_cal 5/07/08 (128) 22:05:13:341 LOG Calibration start waveform=0x2, amplitude=1, duration=5400, calbitmap=0x3, monbitmap=0x4, period=6
sensor_cal 5/08/08 (129) 01:10:13:337 LOG Calibration start waveform=0x2, amplitude=1, duration=5400, calbitmap=0x5, monbitmap=0x2, period=6

TA_B06A
service 5/09/08 (130) 18:12:50:620 UMSG ip = 10.172.53.5 (?), msg = STATION B06A SERVICE REPLACED PUMP SENSOR SWITCH 1030 5-8-2008 DNGUYEN
 masrecenter 5/09/08 (130) 18:30:04:469
service 5/09/08 (130) 18:38:41:387 UMSG ip = 10.172.53.5 (?), msg = STATION B06A SERVICE FINISHED 1200 5-8-2008 DNGUYEN

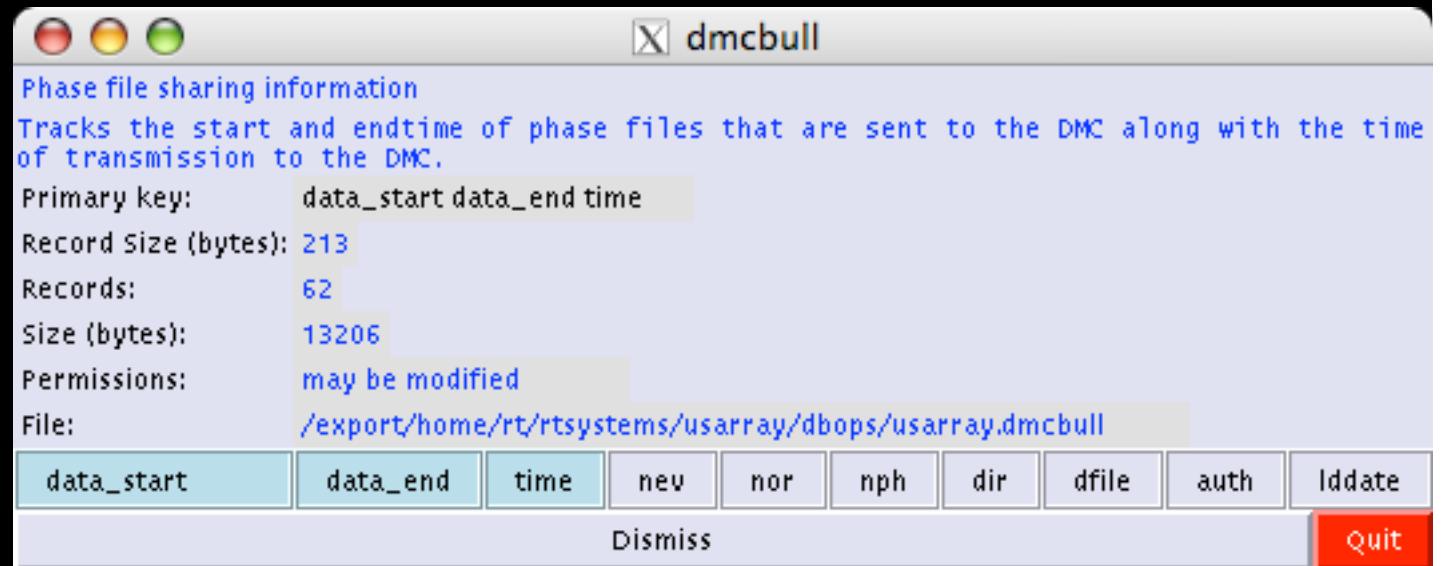
TA_C15A
 masrecenter 5/11/08 (132) 23:30:04:738

TA_D06A
service 5/12/08 (133) 18:42:19:684 UMSG ip = 10.172.53.5 (?), msg = Station Removal TM

June 07, 2008

Antelope User's Group

dmcbull



The screenshot shows a window titled "dmcbull" with the following content:

```
Phase file sharing information
Tracks the start and endtime of phase files that are sent to the DMC along with the time
of transmission to the DMC.
Primary key:      data_start data_end time
Record Size (bytes): 213
Records:         62
Size (bytes):    13206
Permissions:     may be modified
File:            /export/home/rt/rtsystems/usarray/dbops/usarray.dmcbull
```

data_start	data_end	time	nev	nor	nph	dir	dfile	auth	lddate
------------	----------	------	-----	-----	-----	-----	-------	------	--------

Dismiss Quit

- phase pick files shared with DMC for passing to ISC need to be tracked
- Populated using db2ims (creates phase pick files) and ims2dmc

dmcbull table

usarray dmcbull

File Edit View Options Graphics Help

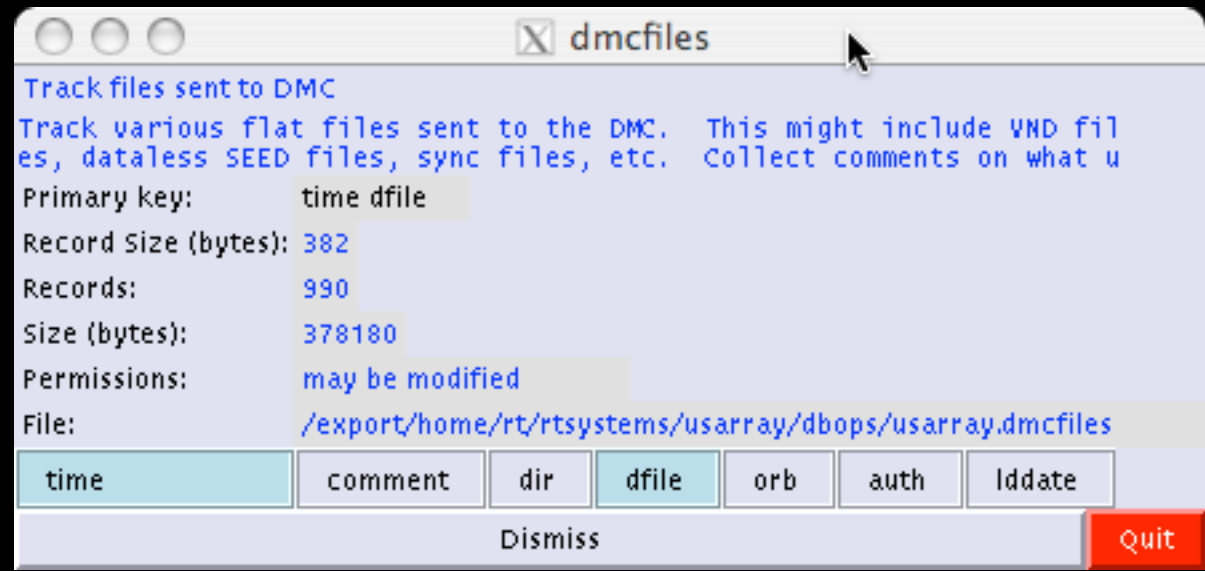
	data_start	data_end	time	nev	nor	nph	dir	dfile	auth	
0	4/13/2004 (104)	0:17:32.00000	4/30/2004 (121) 18:17:21.63000	3/13/2008 (073) 17:45:00.00000	113	285	2478	/anf/TA/products/IMS	2004_04_13_ANF_IMS	ims2dmc:eakins
	5/01/2004 (122)	2:52:58.00000	5/31/2004 (152) 2:56:54.50000	3/14/2008 (074) 14:58:44.00000	221	522	5170	/anf/TA/products/IMS	2004_05_01_ANF_IMS	ims2dmc:eakins
	6/01/2004 (153)	3:08:48.20000	6/30/2004 (182) 23:37:25.45000	3/14/2008 (074) 14:58:55.00000	174	464	5159	/anf/TA/products/IMS	2004_06_01_ANF_IMS	ims2dmc:eakins
	7/01/2004 (183)	3:42:43.41000	7/31/2004 (213) 23:12:03.55000	3/14/2008 (074) 14:59:04.00000	224	611	7071	/anf/TA/products/IMS	2004_07_01_ANF_IMS	ims2dmc:eakins
	8/01/2004 (214)	5:25:07.93000	8/31/2004 (244) 20:35:07.00000	3/14/2008 (074) 14:59:11.00000	272	695	8343	/anf/TA/products/IMS	2004_08_01_ANF_IMS	ims2dmc:eakins
	9/01/2004 (245)	0:13:09.04000	9/30/2004 (274) 20:47:15.47000	3/14/2008 (074) 14:59:18.00000	508	1410	12887	/anf/TA/products/IMS	2004_09_01_ANF_IMS	ims2dmc:eakins
	10/01/2004 (275)	0:38:58.09000	10/31/2004 (305) 23:02:16.29000	3/14/2008 (074) 14:59:23.00000	484	1236	12810	/anf/TA/products/IMS	2004_10_01_ANF_IMS	ims2dmc:eakins
	11/01/2004 (306)	1:02:05.73000	11/30/2004 (335) 22:35:53.53000	3/14/2008 (074) 14:59:28.00000	349	858	12110	/anf/TA/products/IMS	2004_11_01_ANF_IMS	ims2dmc:eakins
	12/01/2004 (336)	0:43:15.34000	12/31/2004 (366) 23:06:20.27000	3/14/2008 (074) 14:59:33.00000	380	855	11751	/anf/TA/products/IMS	2004_12_01_ANF_IMS	ims2dmc:eakins
	1/01/2005 (001)	1:26:22.63000	1/31/2005 (031) 20:29:08.35000	3/14/2008 (074) 14:59:46.00000	357	838	10152	/anf/TA/products/IMS	2005_01_01_ANF_IMS	ims2dmc:eakins
	2/01/2005 (032)	1:47:25.72000	2/28/2005 (059) 20:55:34.65000	3/14/2008 (074) 14:59:55.00000	332	776	10196	/anf/TA/products/IMS	2005_02_01_ANF_IMS	ims2dmc:eakins
	3/01/2005 (060)	0:32:21.00000	3/31/2005 (090) 21:52:31.00000	3/14/2008 (074) 15:00:00.00000	373	938	11083	/anf/TA/products/IMS	2005_03_01_ANF_IMS	ims2dmc:eakins
	4/01/2005 (091)	0:49:42.02000	4/30/2005 (120) 21:36:17.18000	3/14/2008 (074) 15:00:06.00000	363	921	11666	/anf/TA/products/IMS	2005_04_01_ANF_IMS	ims2dmc:eakins
	5/01/2005 (121)	0:36:06.68000	5/31/2005 (151) 20:41:23.25000	3/14/2008 (074) 15:00:14.00000	421	1059	13067	/anf/TA/products/IMS	2005_05_01_ANF_IMS	ims2dmc:eakins
	6/01/2005 (152)	2:11:57.48000	6/30/2005 (181) 21:26:37.00000	3/14/2008 (074) 15:00:22.00000	569	1236	17231	/anf/TA/products/IMS	2005_06_01_ANF_IMS	ims2dmc:eakins
	7/01/2005 (182)	3:53:57.67000	7/31/2005 (212) 22:27:42.29000	3/14/2008 (074) 15:00:26.00000	461	1150	15075	/anf/TA/products/IMS	2005_07_01_ANF_IMS	ims2dmc:eakins
	8/01/2005 (213)	1:31:21.44000	8/31/2005 (243) 23:50:47.81000	3/14/2008 (074) 15:00:30.00000	504	1331	16154	/anf/TA/products/IMS	2005_08_01_ANF_IMS	ims2dmc:eakins
	9/01/2005 (244)	0:03:57.21000	9/30/2005 (273) 23:48:05.35000	3/14/2008 (074) 15:00:42.00000	813	2090	22165	/anf/TA/products/IMS	2005_09_01_ANF_IMS	ims2dmc:eakins
	10/01/2005 (274)	1:22:09.39000	10/31/2005 (304) 21:15:07.82000	3/14/2008 (074) 15:00:46.00000	580	1448	19284	/anf/TA/products/IMS	2005_10_01_ANF_IMS	ims2dmc:eakins
	11/01/2005 (305)	1:17:35.68000	11/30/2005 (334) 23:05:33.32000	3/14/2008 (074) 15:00:50.00000	563	1363	18967	/anf/TA/products/IMS	2005_11_01_ANF_IMS	ims2dmc:eakins
	12/01/2005 (335)	1:13:36.43000	12/31/2005 (365) 23:59:05.58000	3/14/2008 (074) 15:00:54.00000	468	1156	16444	/anf/TA/products/IMS	2005_12_01_ANF_IMS	ims2dmc:eakins
	1/01/2006 (001)	5:27:33.72000	1/31/2006 (031) 23:58:01.93000	3/14/2008 (074) 15:01:10.00000	430	1060	14571	/anf/TA/products/IMS	2006_01_01_ANF_IMS	ims2dmc:eakins
	2/01/2006 (032)	1:08:28.90000	2/28/2006 (059) 22:57:19.56000	3/14/2008 (074) 15:01:17.00000	463	1095	15180	/anf/TA/products/IMS	2006_02_01_ANF_IMS	ims2dmc:eakins
	3/01/2006 (060)	3:16:25.67000	3/31/2006 (090) 23:23:30.54000	3/14/2008 (074) 15:01:21.00000	592	1426	19744	/anf/TA/products/IMS	2006_03_01_ANF_IMS	ims2dmc:eakins
	4/01/2006 (091)	1:18:13.60000	4/30/2006 (120) 23:57:11.25000	3/14/2008 (074) 15:01:26.00000	657	1418	26461	/anf/TA/products/IMS	2006_04_01_ANF_IMS	ims2dmc:eakins

Dismiss

June 07, 2008

Antelope User's Group

dmcfiles



```
Track files sent to DMC
Track various flat files sent to the DMC. This might include VND files,
dataless SEED files, sync files, etc. Collect comments on what u
Primary key:      time dfile
Record Size (bytes): 382
Records:         990
Size (bytes):    378180
Permissions:     may be modified
File:            /export/home/rt/rtsystems/usarray/dbops/usarray.dmcfiles
```

time	comment	dir	dfile	orb	auth	lddate
------	---------	-----	-------	-----	------	--------

Dismiss Quit

- Track files transferred to DMC (i.e. dataless, VND, phase pick, etc.)
- Populated by `ims2dmc` and `mk_dmc_files` scripts

dmcfiles table

usarray dmcfiles

File Edit View Options Graphics Help

ok X

951	time	comment	orb	auth
	5/12/2008 (133) 14:35:07.00000	V22A, V23A, W24A (certified); H06A (closed); M11A (modified)	anfexport.ucsd.	mdf:rt
	5/12/2008 (133) 20:25:15.00000	V22A,V23A,W24A(certified);H06A(closed);TPNV,I05A,S04C,N11A,M13A,	anfexport.ucsd.	mdf:rt
	5/15/2008 (136) 5:26:05.00000	D06A,D07A,E06A(closed); H06A(orientation); Q15A,R18A,S15A(swaps)	anfexport.ucsd.	mdf:rt
	5/15/2008 (136) 14:18:14.00000	D06A,D07A,E06A(closed)	anfexport.ucsd.	mdf:rt
	5/15/2008 (136) 19:40:19.00000	U26A, V26A, W26A, W27A (certified); C08A (closed)	anfexport.ucsd.	mdf:rt
	5/15/2008 (136) 17:16:02.00000	U26A, V26A, W26A, W27A (certified); C08A (closed); P17A, R15A (m	anfexport.ucsd.	mdf:rt
	5/19/2008 (140) 17:01:26.00000	DMC phase picks for 430 events from 2006/01/01 05:27:33.72 to 20	anfexport.ucsd.	ims2dmc:rt
	5/19/2008 (140) 17:01:28.00000	DMC phase picks for 463 events from 2006/02/01 01:08:28.90 to 20	anfexport.ucsd.	ims2dmc:rt
	5/19/2008 (140) 17:01:30.00000	DMC phase picks for 592 events from 2006/03/01 03:16:25.67 to 20	anfexport.ucsd.	ims2dmc:rt
	5/19/2008 (140) 17:01:33.00000	DMC phase picks for 657 events from 2006/04/01 01:18:13.60 to 20	anfexport.ucsd.	ims2dmc:rt
	5/19/2008 (140) 17:08:50.00000	DMC phase picks for 878 events from 2006/05/01 00:02:15.80 to 20	anfexport.ucsd.	ims2dmc:rt
	5/19/2008 (140) 22:53:08.00000	DMC phase picks for 848 events from 2006/06/01 00:01:06.59 to 20	anfexport.ucsd.	ims2dmc:rt
	5/19/2008 (140) 20:34:27.00000	Z23A, Z24A, 123A (certified); A08A, A09A, B07A, C06A, C07A (clos	anfexport.ucsd.	mdf:rt
	5/19/2008 (140) 23:09:40.00000	V22A certified	-	mdf:rt
	5/19/2008 (140) 23:09:47.00000	V23A certified	-	mdf:rt
	5/19/2008 (140) 23:09:53.00000	W24A certified	-	mdf:rt
	5/19/2008 (140) 23:10:01.00000	U26A certified	-	mdf:rt
	5/19/2008 (140) 23:10:07.00000	V26A certified	-	mdf:rt
	5/19/2008 (140) 23:10:15.00000	W26A certified	-	mdf:rt
	5/19/2008 (140) 23:10:21.00000	W27A certified	-	mdf:rt
	5/19/2008 (140) 23:10:26.00000	Z23A certified	-	mdf:rt
	5/19/2008 (140) 23:10:32.00000	Z24A certified	-	mdf:rt
	5/19/2008 (140) 23:10:37.00000	123A certified	-	mdf:rt
	5/19/2008 (140) 23:11:29.00000	H06A closed	-	mdf:rt
	5/19/2008 (140) 23:11:35.00000	C08A closed	-	mdf:rt

990

Dismiss



Issues and future work

- Additional dbverify tests (dbverify.pf in dbops/)
- Auto-population and update of deployment table