

Status of EMU Database at CERN.

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CERN

Objectivity abandoned.

Oracle - no restrictions in space.

No need for dedicated Oracle server.

CMS

Tracker - Oracle.

EMU - Oracle.

ECAL - Cristal (Objectivity)



Cristal2 (Oracle).

MU Barrel - Objectivity \Rightarrow text files.

RPC - MySQL.



Organization

Each sub DB has separate account in CERN Oracle Central Database.

Interconnection

Mutual access by granting rights.

Sub Databases

- 1) AFEB tests and status.
Account *cms_anode_boards*.
- 2) ALCT tracking.
Account *cms_alct*.
- 3) FAST site tests and tracking.
Account *cms_csc*.
- 4) CERN tests and cross-references.
Account *cms_emu_cern*.



8610 boards are tested.

~ 70000 *files* with raw data and results of analysis are uploaded.

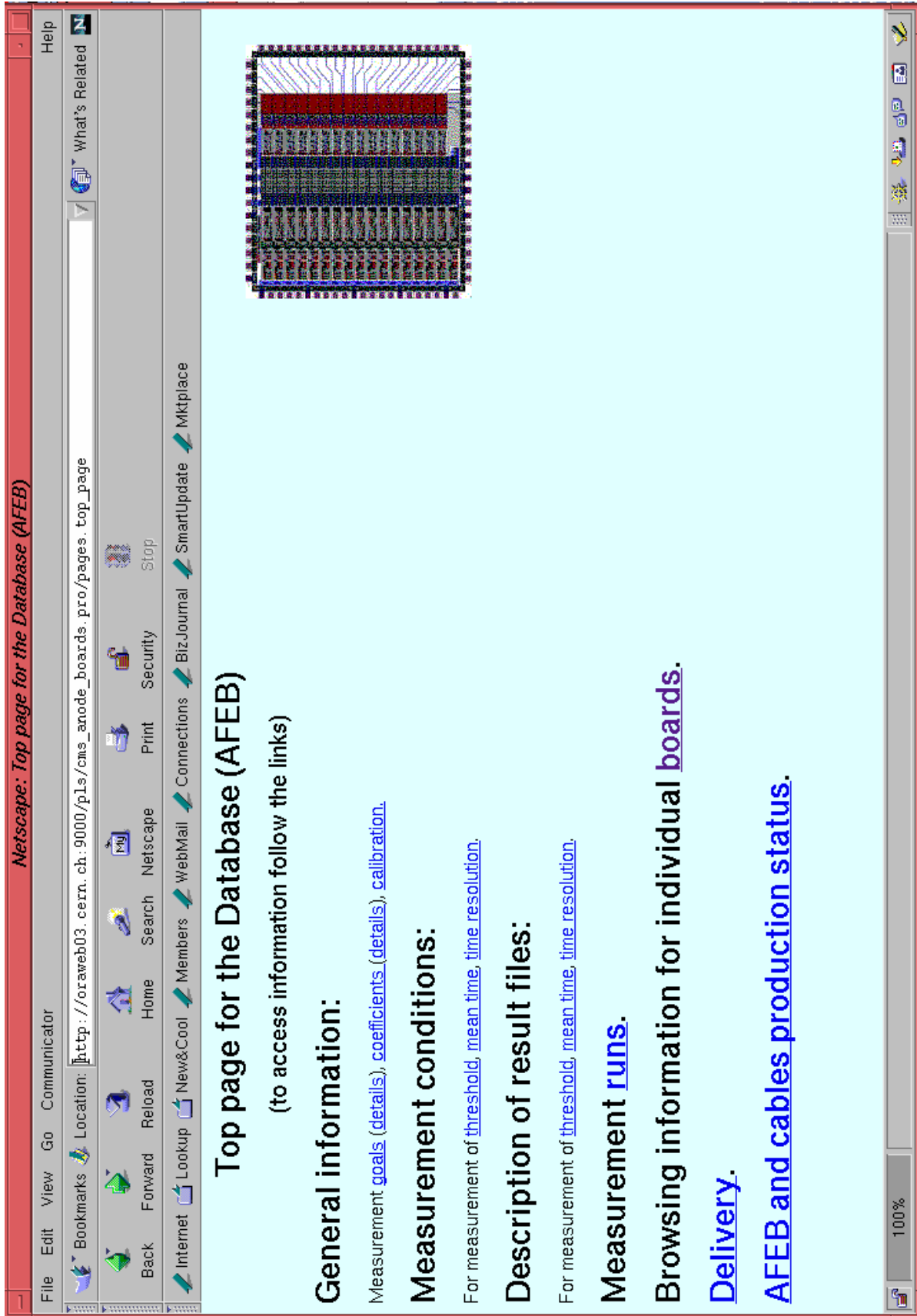
Space used ~ 350 *Mbyte*.

Upload of files - C program (+ Perl script).

Perl scripts - decode files with results and upload numbers into tables.



AFEB database - top page





Netscape: List of board files

Location: http://oraweb03.cern.ch:9000/pls/cms_anode_boards.pro/board_files.board_list

The board selected is => 9944

Declared: good. Delivered to PNPI 28 MAR 2002 (delivery number 2).

Measured board parameters (mean over channels) Cuts = 6

Q	Ns	Gn	Offs	Qm	U20	Cint	Q	Ns	Mt	Rt	Slt
36.3	1.9	6.5	86.6	14.7	44	.238	38.2	2	69	.6	2.2

Board measurements

File	Size	Type	Date of file	Board	Run	Condition
E3544/mt1000434_9944_1.dat	5145	text/plain	21-FEB-2002 14:36:04	9944	1000434	1
E18098/rt1000434_9944_1.dat	4381	text/plain	21-FEB-2002 14:48:36	9944	1000434	1
E24504/th1000434_9944_23.dat	1768	text/plain	21-FEB-2002 15:11:06	9944	1000434	23
E27151/th1000434_9944_24.dat	1632	text/plain	21-FEB-2002 15:11:07	9944	1000434	24
E18974/th1000434_9944_25.dat	1444	text/plain	21-FEB-2002 15:11:07	9944	1000434	25

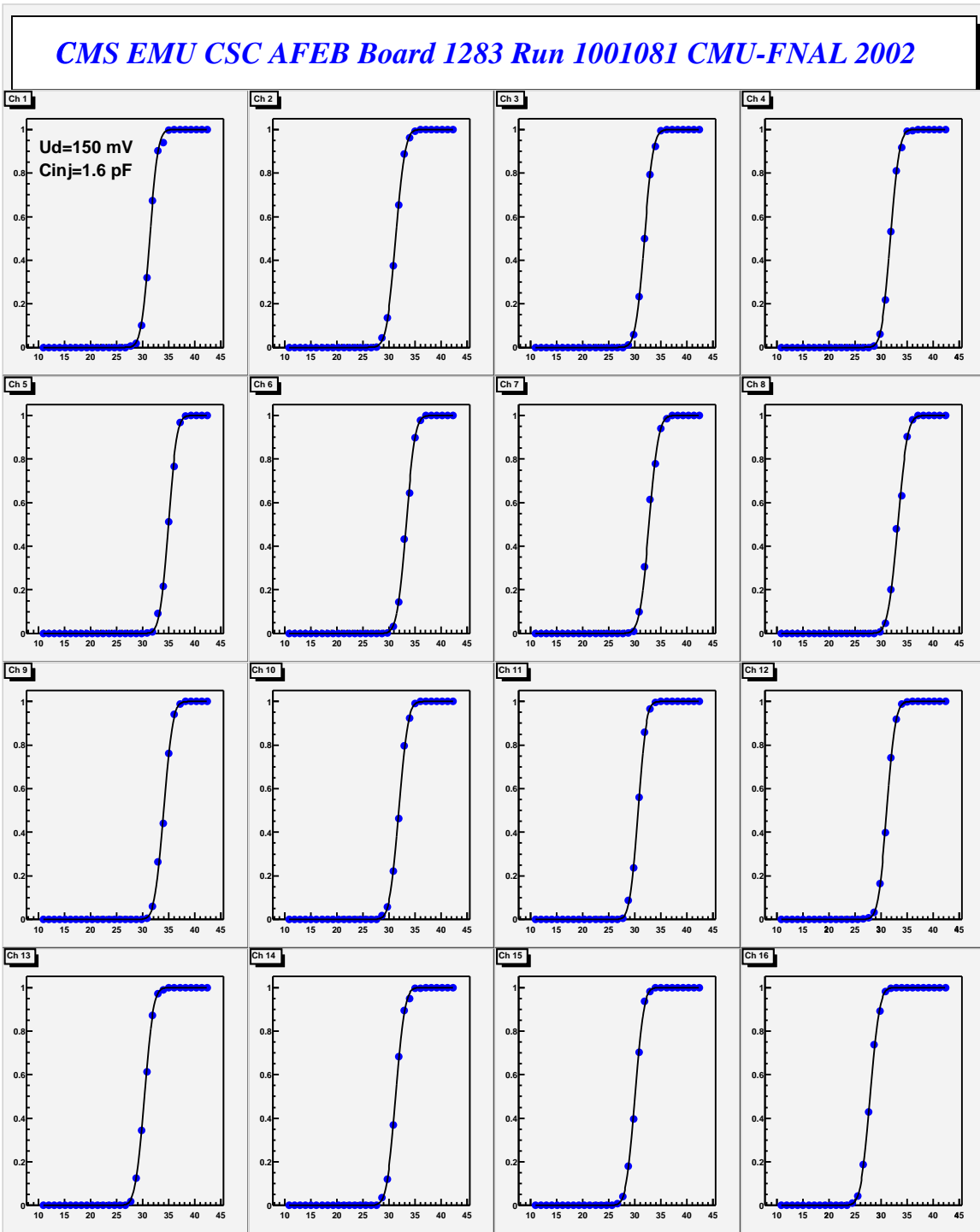
Board test results

File	Size	Type	Date of file	Board	Run
E26798/mt1000434_9944.out	1004	text/plain	21-FEB-2002 16:08:25	9944	1000434
E9341/rt1000434_9944.out	1004	text/plain	21-FEB-2002 16:19:21	9944	1000434
E5465/th1000434_9944.out	2238	text/plain	21-FEB-2002 16:30:39	9944	1000434

Description of test results: [threshold \(th\)](#), [mean time \(mt\)](#), [time resolution \(rt\)](#).



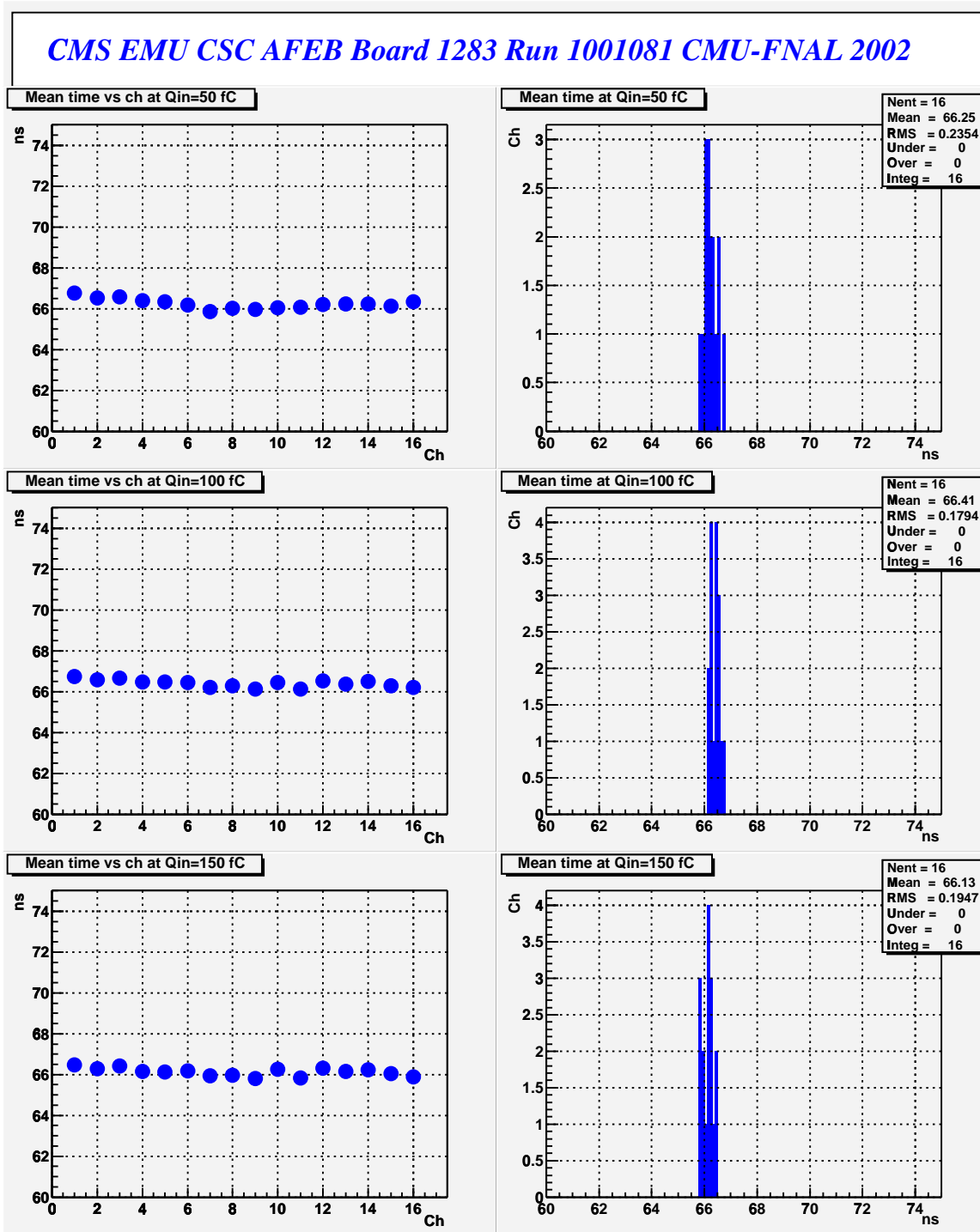
Example of graphic plot for results (N. Terentiev)



Threshold behaviour of discriminator channels.



Example of graphic plot for results (N. Terentiev)



Mean propagation time for different input signals.



AFEB-ALCT cable flow

Month	ME23/2		ME1/2		ME1/3		ME2/1		ME3/1		ME4/1		Month
	Delivery	UF	UCLA	Delivery	IHEP	Delivery	IHEP	Delivery	PNPI	Delivery	PNPI	Delivery	
MAR-2001	8			9									MAR-2001
APR-2001	10			10				9					APR-2001
MAY-2001	10			10				10					MAY-2001
JUN-2001	10			10				10					JUN-2001
JUL-2001			1										JUL-2001
AUG-2001		15	15										AUG-2001
SEP-2001	10			10		1		8					SEP-2001
OCT-2001	10			10		5				6			OCT-2001
NOV-2001	10			10		9				6			NOV-2001
DEC-2001		16	14						36				DEC-2001
JAN-2002	10			5		9				6	18		JAN-2002
FEB-2002	10					10				8			FEB-2002
MAR-2002													MAR-2002
APR-2002													APR-2002
MAY-2002													MAY-2002
JUN-2002													JUN-2002
JUL-2002													JUL-2002
AUG-2002													AUG-2002
SEP-2002													SEP-2002
OCT-2002													OCT-2002
NOV-2002													NOV-2002
DEC-2002													DEC-2002
Made	88			74		34		37		26		0	
Needed	148			74		74		38		38		38	
Rest	60			0		40		1		12		38	
Shipped		31	30		0		0		36		18		0
Stored at FNAL	27			74		34		1		8		0	



ALCT tracking (update form).

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ALCT Update Form

ALCT board selected is: 11

Board is already in table, board record will be updated after "Submit".

For all dates, please use the format DD-MON-YYYY (for example, 15-DEC-2001).

Board Number:

Board Type: Date Produced: Date Assembled:

PCB Production Notes: <input type="text" value="Preproduction batch/Cirtech"/>	Assembly Notes: <input type="text" value="Bat PC BAT16637. Seems to be shorted"/>
--	---

Delay ASIC bin: Firmware version:

Hardwired Board ID: Mezz Card:

PROM notes: <input type="text"/>	Mezz Card Notes: <input type="text" value="Rcvd. 11/19/01"/>
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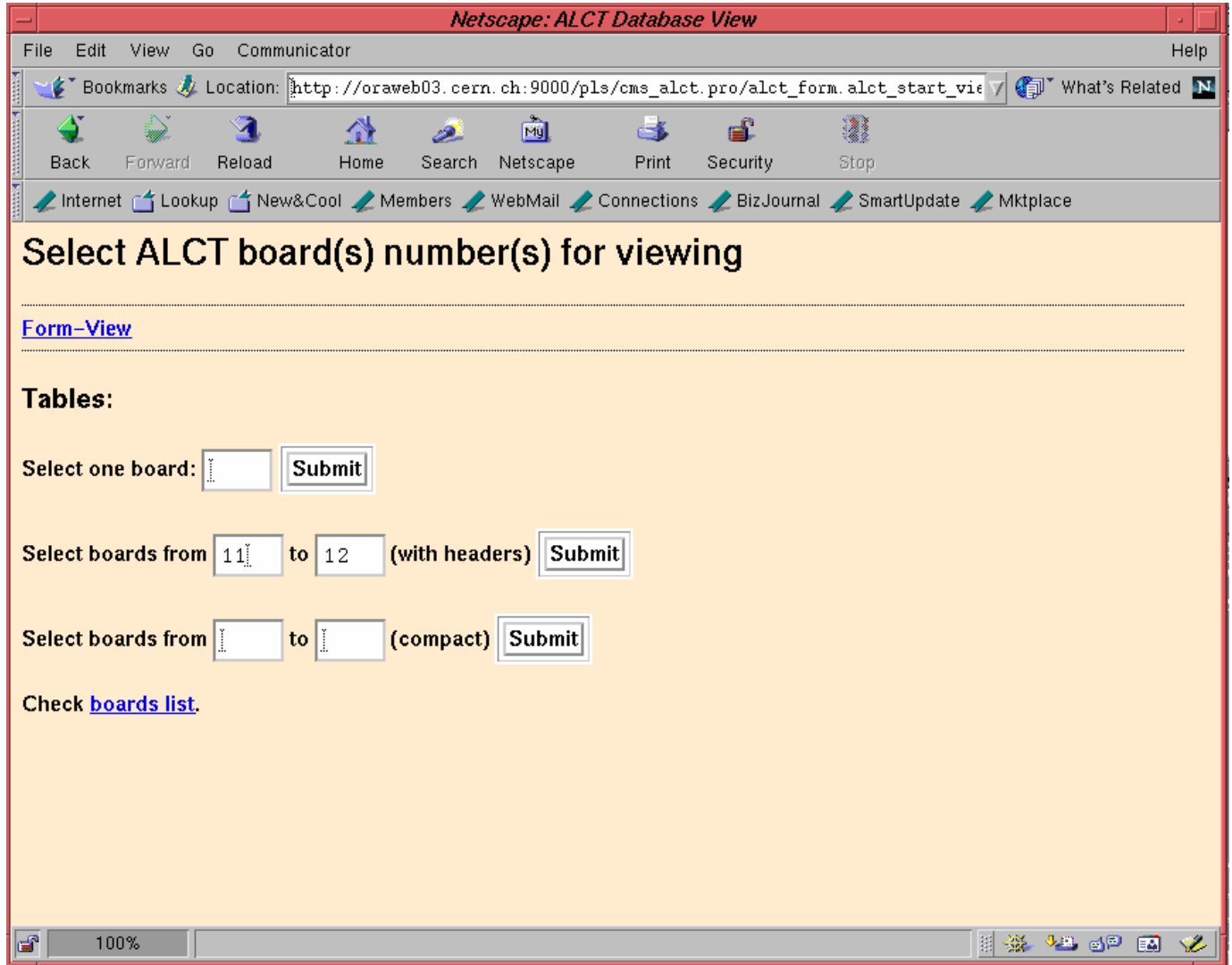
Date of Bench Test 1: Date of Burn-in:

Bench Test 1 Notes: <input type="text"/>	Burn-in Notes: <input type="text"/>
--	---

100%



ALCT viewing - select board.





ALCT table viewing.

Netescape: ALCT table.

Location: http://oraweb03.cern.ch:9000/pls/cms_alct_pro/alct_form_alct_table1

Data for ALCT boards 11-12.

Data for ALCT board number 11.

Board number	Board type	Date produced	Date assembled	Delay ASIC bin	Firmware version	Hardwired Board ID	Mezz card	Date of Bench Test 1	Date of Burn in	Date of Bench Test 2	Date Shipped	Shipped to	Present Location	Chamber Where Installed	Date of Last Summary
11	ALCT384	26-NOV-2001	26-DEC-2001	7			11						UCLA lab 0		04-DEC-2001
PCB Production Notes Bat PC BAT16637. Seems to be shorted internal trace (4-Jan-02).															
Mezz Card Notes Burn-in Notes															
Bench Test 2 Notes Summary Notes															
Assembly Notes PROM Notes															

Data for ALCT board number 12.

Board number	Board type	Date produced	Date assembled	Delay ASIC bin	Firmware version	Hardwired Board ID	Mezz card	Date of Bench Test 1	Date of Burn in	Date of Bench Test 2	Date Shipped	Shipped to	Present Location	Chamber Where Installed	Date of Last Summary
12	ALCT384	26-NOV-2001	03-JAN-2002	7			12	08-APR-2002	15-APR-2002				UCLA_FS lab	0	04-DEC-2001
PCB Production Notes BatPC BAT16643.															
Mezz Card Notes Rotate U44															
Bench Test 2 Notes Summary Notes															
Bench Test 1 Notes Burn-in Notes															
Assembly Notes PROM Notes															



Web space is set up (on CMS Web server).

Boards tracking data are uploaded from FAST sites (ODBC connection).

The web reports to access the electronic boards tracking database at CERN have been developed (pl/sql).

Chambers tracking is under installation.

Facility for uploading files is available.



Tracking of boards (view).

Netscape: Report: Boards_on_csc

File Edit View Go Communicator Help

Location: http://oraweb03.cern.ch:9000/pls/cms_csc.pro/db_electronics.do_query_boards_ What's Related

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full number of records:964
shown number of records:100

Results of query

Date	Action	Site	Board type	Board number	CSC type	CSC #	CSC position	Entered by	Entered Date	Entered Time	Comment
2002-05-01	INSTALLED	UC	AFEB	0241	ME234_2	9	3	volkov	2002-05-01	17:02:05	
2002-05-01	INSTALLED	UC	AFEB	2472	ME234_2	9	4	volkov	2002-05-01	17:02:17	
2002-05-01	INSTALLED	UC	AFEB	0747	ME234_2	9	5	volkov	2002-05-01	17:02:30	
2002-05-01	INSTALLED	UC	AFEB	3423	ME234_2	9	6	volkov	2002-05-01	17:02:44	
2002-05-01	INSTALLED	UC	AFEB	2290	ME234_2	9	7	volkov	2002-05-01	17:02:57	
2002-05-01	INSTALLED	UC	AFEB	2313	ME234_2	9	8	volkov	2002-05-01	17:03:09	
2002-05-01	INSTALLED	UC	AFEB	0808	ME234_2	9	9	volkov	2002-05-01	17:03:22	
2002-05-01	INSTALLED	UC	AFEB	2299	ME234_2	9	10	volkov	2002-05-01	17:03:34	
2002-05-01	INSTALLED	UC	AFEB	1171	ME234_2	9	11	volkov	2002-05-01	17:03:49	
2002-05-01	INSTALLED	UC	AFEB	0632	ME234_2	9	12	volkov	2002-05-01	17:04:03	
2002-05-01	INSTALLED	UC	AFEB	2419	ME234_2	9	13	volkov	2002-05-01	17:04:23	
2002-05-01	INSTALLED	UC	AFEB	4543	ME234_2	9	14	volkov	2002-05-01	17:04:35	
2002-05-01	INSTALLED	UC	AFEB	2513	ME234_2	9	15	volkov	2002-05-01	17:04:50	
2002-05-01	INSTALLED	UC	AFEB	0686	ME234_2	9	16	volkov	2002-05-01	17:05:06	
2002-05-01	INSTALLED	UC	AFEB	1231	ME234_2	9	17	volkov	2002-05-01	17:05:18	
2002-05-01	INSTALLED	UC	AFEB	2335	ME234_2	9	18	volkov	2002-05-01	17:05:30	
2002-05-01	INSTALLED	UC	AFEB	0471	ME234_2	9	19	volkov	2002-05-01	17:05:46	
2002-05-01	INSTALLED	UC	AFEB	1655	ME234_2	9	20	volkov	2002-05-01	17:05:58	
2002-05-01	INSTALLED	UC	AFEB	0670	ME234_2	9	21	volkov	2002-05-01	17:06:11	
2002-05-01	INSTALLED	UC	AFEB	0418	ME234_2	9	22	volkov	2002-05-01	17:06:27	
2002-05-01	INSTALLED	UC	AFEB	0098	ME234_2	9	23	volkov	2002-05-01	17:06:41	
2002-05-01	INSTALLED	UC	AFEB	0769	ME234_2	9	24	volkov	2002-05-01	17:06:57	

100%