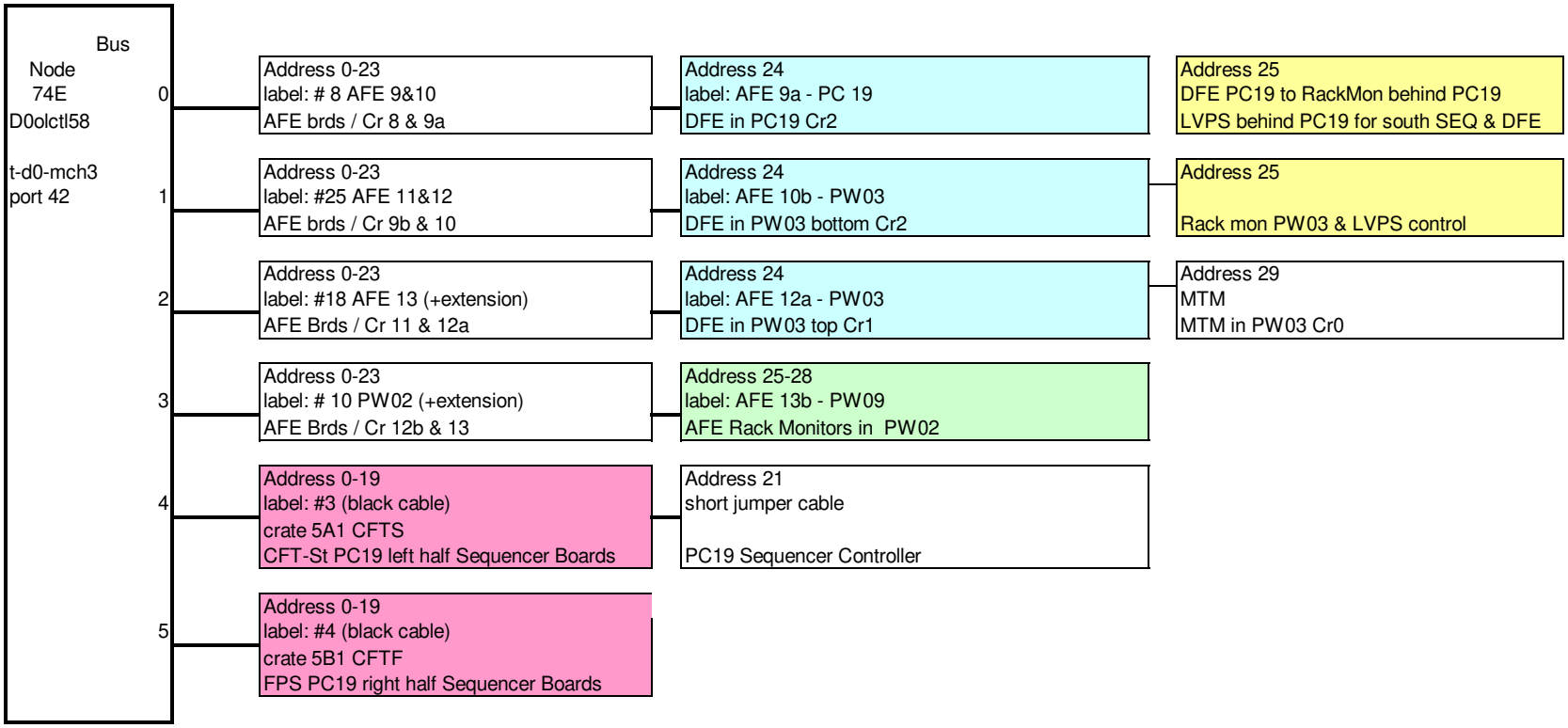
Busses From Controllers

| Node | Bus | 1 First clients on Bus | 2 Second tier of clients on Bus | 3 |
|---|---|---|---|---|
| | | printed labels (mostly)<br>handwritten labels with real target added | handwritten labels | |
| Node 74D D0olctl55 | 0 | Address 0-23<br>label: #5 AFE 1&2<br>AFE Cr 1 & 2a | Address 24<br>label: AFE 2a to DFE in PC03<br>DFE in PC03 top Cr2 | Address 25-27<br>**MB to RMs in PE03**<br>AFE RMs in PE03 |
| t-d0-mch3 port 10 | 1 | Address 0-23<br>label: #9 AFE 3&4<br>AFE Cr 2b & 3 | Address 24<br>label: AFE 3b to DFE in PC20<br>DFE in PC20 Cr2 | Address 26<br>label: DFE PC to RM between 19 & 20<br>Rack Monitor |
| | 2 | Address 0-23<br>label: #1 PC 19 1 (blue)<br>AFE Cr 4 & 5a<br>replacement for cable #13 | Address 24<br>label: AFE 4&5a to MB in PC04;terminator on backplane<br>MB in PC04 Cr2 | Comment: terminator has been removed<br>bus 0 and 2 have DFE target labels swapped a |
| | 3 | Address 0-23<br>label: #26 AFE 7&8<br>AFE Cr 5b & 6 | Address 24<br>label: AFE 6b to DFE in PC03 bottom<br>DFE in PC03 bottom Cr3 | |
| | 4 | Address 0-19<br>label: #17 (black cable)<br>crate 3B1 CFTA<br>CFT-Ax PC04 Sequencers slot 12-21 | Address 25<br>LVPS behind PC04 for north SEQ & DFE | |
| | 5 | Address 0-19<br>label: #18 (black cable)<br>crate 3A1 CFTC<br>CPS PC04 Sequencers slot 1-10 | Address 21<br>from SEQ PC04 cable #18 to SEQC PC04<br>PC04 Sequencer Controller | Address 25<br>from SEQC PC04 to RM between 03/04<br>Rack mon PC04<br>for PC03 & PC04 |
| | 6 | Address 0-15<br>label:# 12 PC 20 spare (+ extension cable)<br>AFE Cr 7 (split crate) | | |
| | 7 | no cable attached<br>**spare bus** | | |

this is
d0server4/projects/triggerelectronics/locations&cables/cable_spreadseets/rt_channels_<date>.xls

last updated: 2001-11-17 no cabling changes; new processor names; added ports; added comments
2001-10-18 SG added even more and longer labels
2001-10-16 SG distribute buses over two (2) processors
swapped 1553 connections for DFE PC03 top and MB
(MB has built-in backplane terminator)
moved north Sequencer controller to Sequencer bus
2001-6-28 SG bus 2 & bus 13 labels


Bus
Node
74E
D0olctl58
t-d0-mch3
port 42
0
1
2
3
4
5
Address 0-23
label: # 8 AFE 9&10
AFE brds / Cr 8 & 9a
Address 24
label: AFE 9a - PC 19
DFE in PC19 Cr2
Address 25
DFE PC19 to RackMon behind PC19
LVPS behind PC19 for south SEQ & DFE
Address 0-23
label: #25 AFE 11&12
AFE brds / Cr 9b & 10
Address 24
label: AFE 10b - PW03
DFE in PW03 bottom Cr2
Address 25
Rack mon PW03 & LVPS control
Address 0-23
label: #18 AFE 13 (+extension)
AFE Brds / Cr 11 & 12a
Address 24
label: AFE 12a - PW03
DFE in PW03 top Cr1
Address 29
MTM
MTM in PW03 Cr0
Address 0-23
label: # 10 PW02 (+extension)
AFE Brds / Cr 12b & 13
Address 25-28
label: AFE 13b - PW09
AFE Rack Monitors in PW02
Address 0-19
label: #3 (black cable)
crate 5A1 CFTS
CFT-St PC19 left half Sequencer Boards
Address 21
short jumper cable
PC19 Sequencer Controller
Address 0-19
label: #4 (black cable)
crate 5B1 CFTF
FPS PC19 right half Sequencer Boards

Cables

| 1 | | MCH | | | | Platform | | length |
|---|---|---|---|---|---|---|---|---|
| Node | Bus | Rack | Crate | slot | | Rack | Crate | ft |
| D0LCTL36 | 0 | M300 | 1 | 1 | top | AFE | 1&2 | 170 |
| D0LCTL36 | 1 | M300 | 1 | 1 | bottom | AFE | 2&3 | 170 |
| D0LCTL36 | 2 | M300 | 1 | 2 | top | AFE | 4&5 | 170 |
| D0LCTL36 | 3 | M300 | 1 | 2 | bottom | AFE | 5&6 | 170 |
| D0LCTL36 | 4 | M300 | 1 | 3 | top | AFE | 7&8 | 170 |
| D0LCTL36 | 5 | M300 | 1 | 3 | bottom | AFE | 8&9 | 170 |
| D0LCTL36 | 6 | M300 | 1 | 4 | top | AFE | 10&11 | 170 |
| D0LCTL36 | 7 | M300 | 1 | 4 | bottom | PW02 | 11&12 | 170 |

The above cables start in MCH-3 and are run under the VLPC cryostats

| 2 | | Platform | | | | length |
|---|---|---|---|---|---|---|
| Node | Bus | Rack | Crate | Rack | Crate | ft |
| D0LCTL36 | 0 | AFE | 1&2 | PC04 | 2 | 20 |
| D0LCTL36 | 1 | AFE | 2&3 | PC20 | 2 | 20 |
| D0LCTL36 | 2 | AFE | 4&5 | PC19 | 2 | 20 |
| D0LCTL36 | 3 | AFE | 5&6 | PC03 | 2 | 20 |
| D0LCTL36 | 4 | AFE | 7&8 | PC03 | 3 | 20 |
| D0LCTL36 | 5 | AFE | 8&9 | PC04 | 2 | 20 |
| D0LCTL36 | 6 | AFE | 10&11 | PW03 | 3 | 20 |
| D0LCTL36 | 7 | PW02 | 11&12 | PW09 | X | 10 |

The above cables start at PN06 and are run under the VLPC cryostats

Short Cables

| length | number | comment |
|---|---|---|
| 2' | 18 | between AFE BP's >> 3 per bus X 6 busses |
| ?? | 7 | between RM in PW02 for AFE LVPS |

Low Voltage Power Supply Monitoring for AFE

RM are located in PW02 & PE02

Crate Controller for DFE Crate

Low Voltage Power Supply Monitoring for 4 Sequencer crates and 3 DFE

Sequencer (half) crate

changes from previous version