

FYSIKUM

The JEP/CP Backplane

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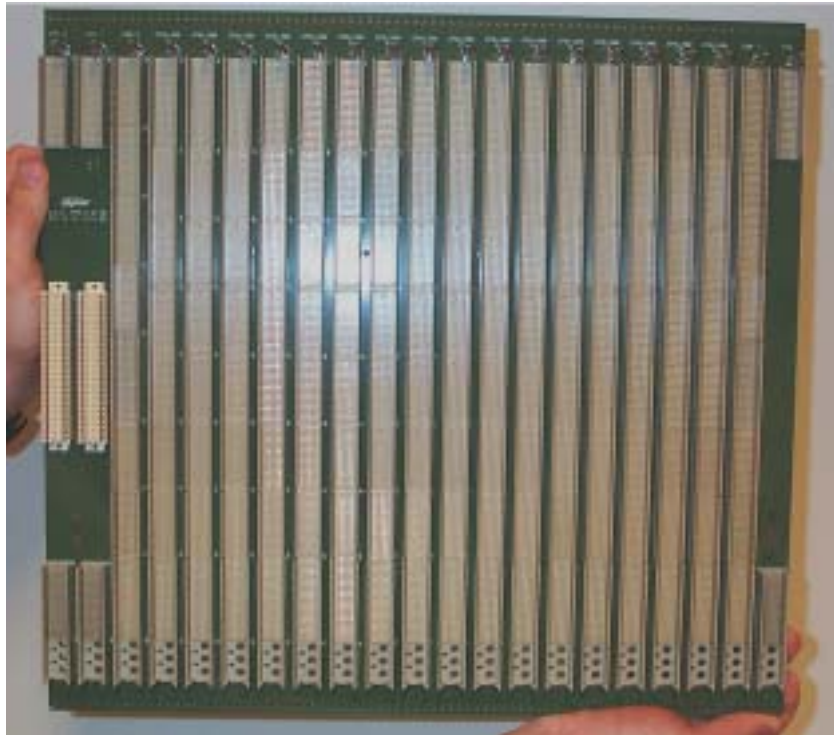
- Backplane Status
- Problems and concerns
- Current plans and outlook

Current Status of the Backplane

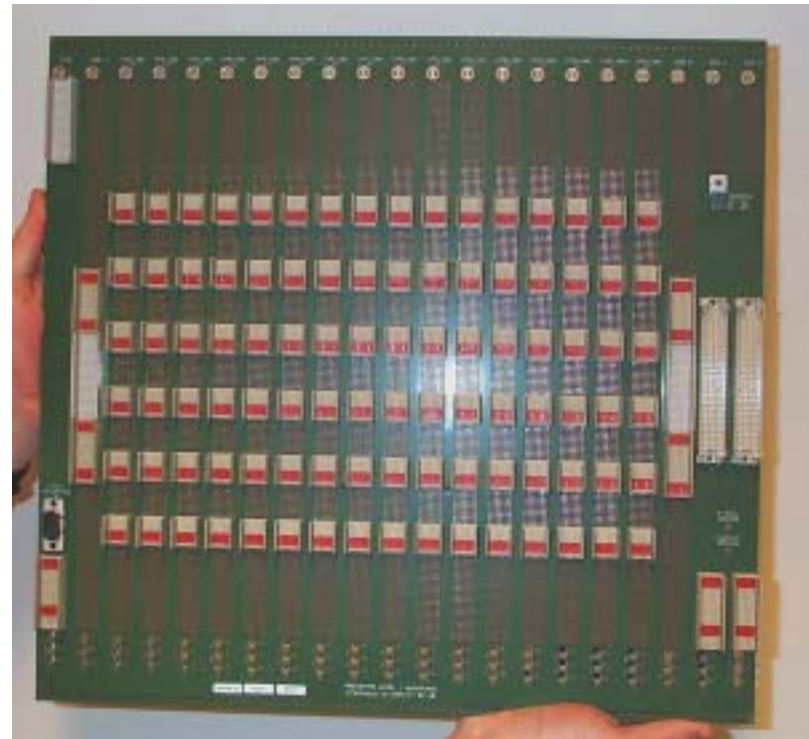
- Received the four prototype processor backplanes from APW on March 1
- Three passed initial inspection. One has offset shroud, APW will fix quickly.
- The first (nearly) completed crate was shipped to RAL March 11

Processor Backplane

Front



Back



Processor crate #1



Processor crate #1 (rear)



Now for the bad news...

- Delivery of the Backplane has already been delayed several weeks
- Delivery of remaining crates may be delayed into April.

Connector suppliers have caused much of the delay

- Assembly delayed by late delivery of CAN connector
- AMP has still not delivered 40A MFBL ground pins!
 - “Lost the tooling” for the part (!)
 - New delivery date: end of March
 - Identical part from Siemens-who were acquired by AMP.

Power installation has proved to be more difficult than anticipated

- AWG 8 cable between power pins and bus bars not very flexible. Much learned during installation of crate #1
- Current wiring of crate #1 OK for initial tests, but needs to be redone before full power can be drawn in all positions
- Crate #1 needs ground pins retrofitted

Current plans

- Do as much work as possible on crates 2-4 while waiting for ground pins
 - Assembly in crates with support H/W
 - Finish preparing bus bars
 - Install +5V in all crates
- When ground pins arrive:
 - Install GND, +3.3V
 - Ship #2 to RAL, #3 to Mainz
 - Ship #4 to RAL in exchange for #1

Outlook

- No firm delivery date for ground pins.
- If APW receives them at the end of March, we will see them in the beginning of April at the earliest
- Crates #2-4 can be sent out at intervals of ~few days once ground pins arrive
- Stockholm tests to take place only after all other crates completed and delivered