
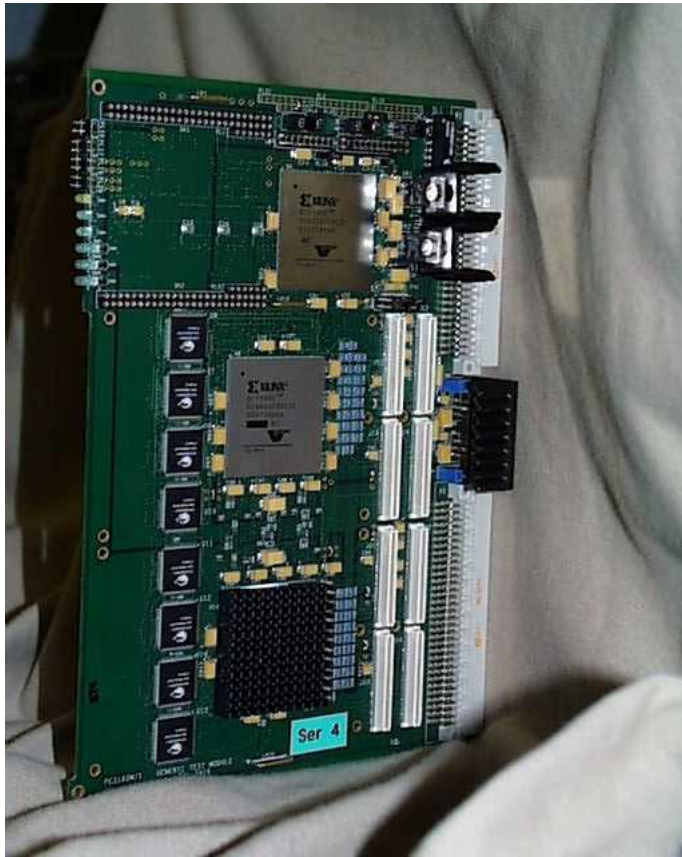


# CP “chip” tests using the Generic Test Module (GTM)



**James Edwards**  
**RAL**

# Test setup on GTM



- FPGA 1 (Two Configs)
  - Small set of vectors loaded into BlockRAM. (James)
  - Reads test vectors loaded into memory. (Ian)
- FPGA 2
  - CP chip

# Initial Results - Calibration



- All 108 channels calibrate.
  - Debugged a number of minor problems.
  - Required the 160 MHz serial to parallel converters to be “hand placed”.

# Data Tests



- BlockRAM vectors
  - All 256 vectors passed!
- External memory vectors
  - Some errors. Nothing obvious!
  - Added “scan path” configuration to aid debugging!

# Summary



- GTM useful aid to debugging.
- Save time when we get the CPM.