

ALPS Project Status & Plans for this EYETS

Production tests of VFC-HD, GEFE and BDF



BE-BI-QP

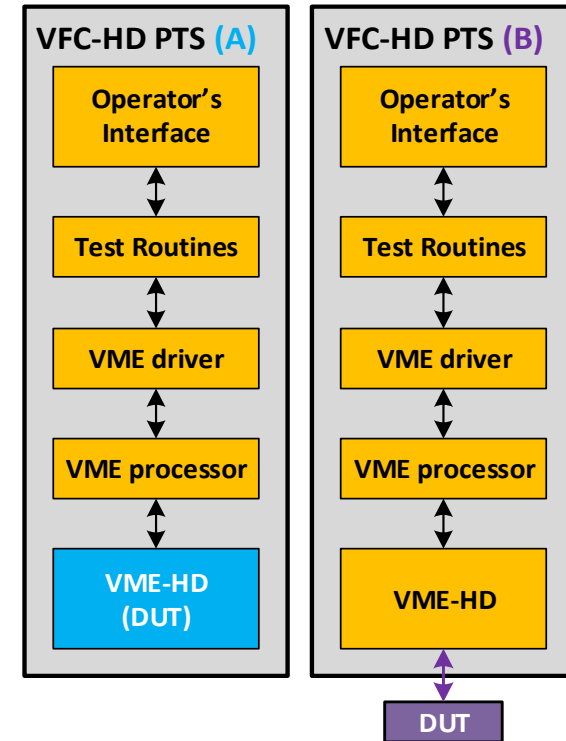
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Introduction

BI Production Test Suite (PTS)

Key features:

- Based on PTS from BE-CO
- Fully automated:
 - Test routines (Python scripts)
 - Reports generation
- Portable:
 - All hardware integrated in one rack
 - Dedicated VME crate & VME Processor
 - Stand-alone software over linux
 - Operator's interface on laptop
- Adaptable:
 - Originally implemented for testing the VFC-HD production (case A)
 - May be used for testing other electronic boards (case B)



Status:

- Hardware setup available
- VFC-HD reference firmware available
- Generic VME driver (encoreio) available
- Reference test scripts available

VFC-HD test bench

Status & Outlook

- **Status**
 - Semi automatic test bench available
 - Implementation of VFC-HD PTS version ongoing (**HIGH PRIORITY**)
- **Outlook**
 - Finalize the VFC-HD PTS by then end of January/beginning of February
 - Test VFC-HD production

GEFE test bench

Status & Outlook

- **Status**
 - Semi automatic test bench available
 - GEFE PTS already specify
 - Gateware for the GEFE PTS available
- **Outlook**
 - Finalise implementation of GEFE PTS (write python scripts) by February
 - Test GEFE production by Q3

BDF test bench

Status & Outlook

- **Status**
 - Semi automatic test bench available
 - BDF PTS already specified
 - BDF Test FMC (BDFT) required
 - Generate analogue signals to feed BDF's ADCs
 - To interface with control signals from BDF
- **Outlook**
 - Specify and design schematic of BDFT by end of February/ beginning of March
 - Send BDFT schematics to workshop by March
 - Fabricate two prototypes of BDFT by April
 - Test BDFT prototypes by May
 - Implement BTF PTS by June
 - Test BDF production by Q3