PFS Software Infrastructure at Subaru

PLACEHOLDER LOGIO

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Introduction The PFS software installed at Subaru needs to process and store critical science and calibration data during the course of operations. The infrastructure on which the software runs must therefore be robust and reliable. This poster outlines the current infrastructure in place, open issues and future plans. Target Infrastructure Currently there are 2 hosts and 1 NFS machine processing data during the MCS engineering runs in April and Oct 2018. This will be ex-This consists of 3 hosts and two NFS boxes to provide as much redundancy and flexibility as possible. tended to target infrastructure below. Subaru Internal Mitsubishi MLP1 VM#1 for shell (shell-ics) Serial Port RS232 Host #1 Gen2 accommodating all actors except DB related Serial Port RS232 Subaru Core Switch VM#3 for DB Host #2 (postgres) + archiver PFS Core Switch Host #3 PFI activities (ASIAA) 100TB • /home Disk array • /data 35TB /software Replicated NFS #1 VM data disk (not yet available) 35TB NFS #2 Controller Replicated (backup) disk (iSCSI preferred over FC) Core Switch Layout Open Points The detailed core switch configuration and ethernet connections to the host and NFS machines are 1. The 35TB (physical size=60TB; effective capacity=35TB) disk arrays on NFS-1 and -2 are still to be confirmed, pending on the Subaru Core switch Logically, one switch number of slots available and the cost. **x**1 Host #1 PFS core switch1 2. The NFS-2 machine still needs to be purchased. How is the responsible (Subaru or PFS core switch2 PFS) is to be discussed. **x**1 Host #2 **x**1 3. iSCSI links are preferred over FC. It is felt that the former are more robust. This may 100TB introduce a performance penalty however. Disk array x2 NFS #1 x2 Controller **x**2 shown below.