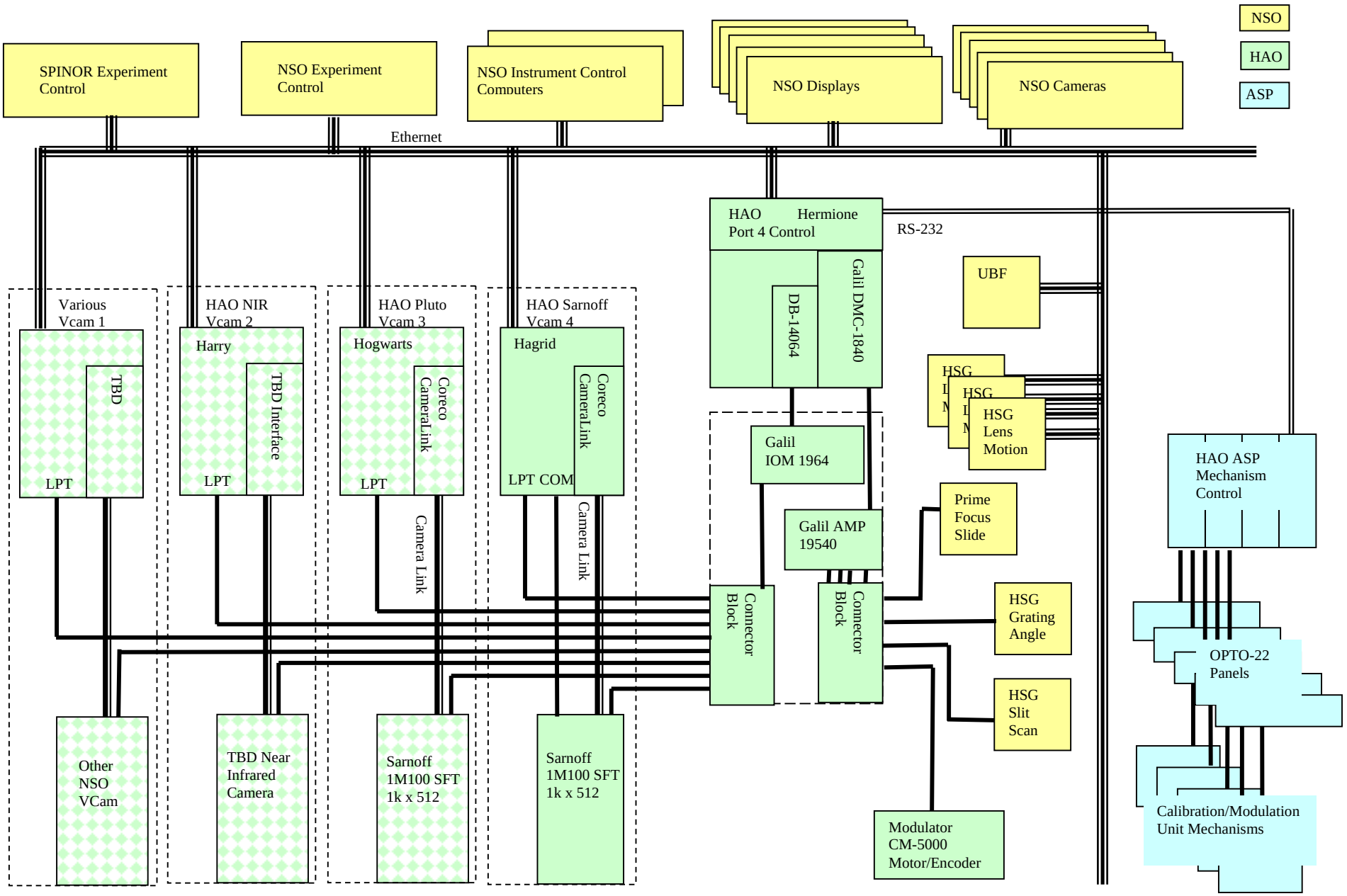
SPINOR Top Level Block Diagram

5 May, 2005 DFE



Notes:
Camera 1: This is a DST facility camera. It could be an NSO IR camera, an NSO Pluto or BioXight camera or a possible HAO Infrared camera obtained for SPINOR only (unknown probability but a proposal is in the works). It needs to be programmed as a Virtual Camera and able to operate via a camera strobe and a parallel input to the computer.
Camera 2: HAO Rockwell camera is intended primarily for COMP and the ESF Prominence Magnetic field initiative. It will occasionally be available with HAO permission for use on SPINOR. For COMP and the ESF programs the internal pre-filter needs to be different from that needed for 1.6μm observations and changing filters is quite difficult. This computer is currently programmed to run as a slave to the ASP. It needs to be re-programmed as a Virtual Camera unless some other IR camera is located for use on SPINOR.
Camera 3: HAO Pluto camera is to be shared between the Prominence Magnetic field initiative and SPINOR. Scheduling for use on SPINOR must take the other project into consideration. This computer is currently programmed to run as a slave to the ASP. It needs to be re-programmed as a Virtual Camera.
Camera 4: HAO camera purchased for use as a DST facility camera that will always be available for use on SPINOR. Its computer is currently programmed to run as a slave to the ASP and needs to be re-programmed as a Virtual Camera.

Hermione: This computer does not exist. It needs to be purchased set up to control the 'gray box', the polarization modulator, and send out camera strobes and parallel status for Virtual Camera computers. It could also drive the HSG grating, HSG slit scan motor, and the prime focus slide via its four-axis servo control board.
HAO has acquired the Galil servo board, digital I/O board and amplifier and HAO has the CM-5000 motor/encoder.

HSG control. This drawing assumes the HSG will be controlled from some NSO computer on the network using TCP/IP boxes at the mechanisms.