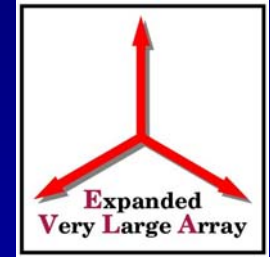


ENGINEERING REQUIREMENTS FOR BENCH TESTING, SYSTEM INTEGRATION, AND TEST ANTENNA



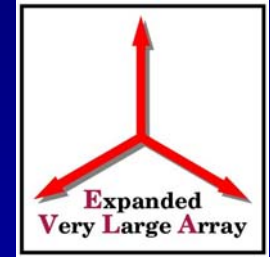
MODULE INTERFACES



- NEEDED FOR BENCH TESTING
- LOW LEVEL SCREENS
- HIGH LEVEL SCREENS
- TEST SOFTWARE



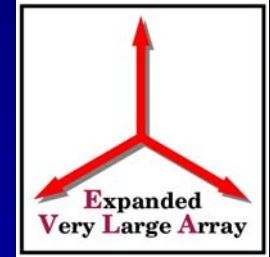
LOW LEVEL SCREENS



- PROVIDE USER ACCESS TO ALL MODULE COMMAND AND MONITOR POINTS BY ADDRESS
- CAPABLE OF READING SINGLE ADDRESSES AND ADDRESS BLOCKS
- CAPABLE OF SINGLE AND CONTINUOUS MONITOR UPDATES



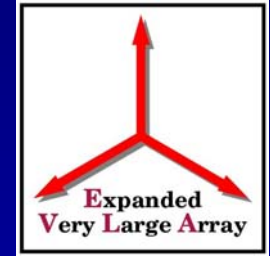
LOW LEVEL SCREENS



- MONITOR VALUES CAN BE DISPLAYED IN HEX OR DECIMAL
- CAPABLE OF SINGLE AND REPETITIVE COMMANDS



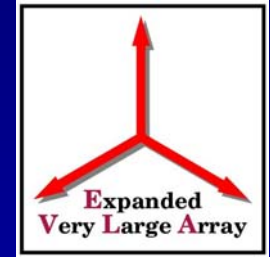
HIGH LEVEL SCREENS



- USUALLY ONE SCREEN PER MODULE, SOMETIMES MORE MAY BE NEEDED
- A USER FRIENDLY INTERACTIVE MODULE INTERFACE IS PROVIDED
- IMPORTANT MONITOR POINTS ARE DISPLAYED, LABELLED, AND UPDATED CONTINUOUSLY



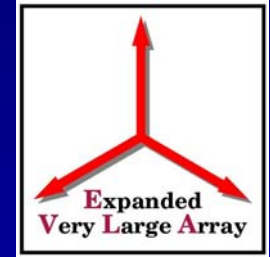
HIGH LEVEL SCREENS



- IMPORTANT COMMAND POINTS ARE DISPLAYED
- USER CAN SPECIFY A PRECISE VALUE FOR NUMERIC COMMANDS
- BUTTONS AND KNOBS CAN BE USED TO SET VALUES AND INITIATE COMMANDS



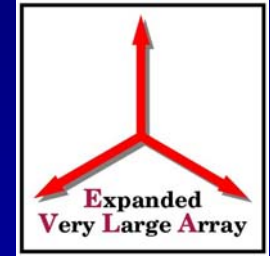
SYSTEM INTEGRATION



- SCREENS WILL MONITOR SYSTEMS
– SOME COMMAND CAPABILITY
MAY ALSO BE NEEDED
- SINGLE SCREEN WILL INTERFACE
WITH MULTIPLE MIBS



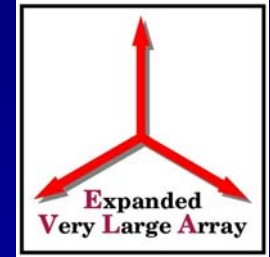
TEST SOFTWARE



- TEST SOFTWARE WILL BE NEEDED FOR INDIVIDUAL MODULES
- SYSTEM TEST SOFTWARE WILL BE NEEDED FOR SYSTEM INTEGRATION



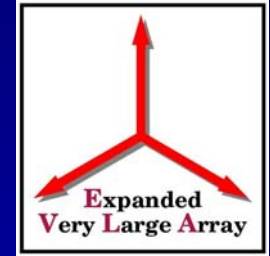
TEST ANTENNA



- ALL SOFTWARE DEVELOPED FOR BENCH TESTING/SYSTEM INTEGRATION WILL BE USED IN TEST ANTENNA
- ADDITIONAL SYSTEMS SCREENS AND TEST SOFTWARE WILL BE NEEDED



SCHEDULE



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- BENCH TESTING STARTS JANUARY, 2003
 - SYSTEMS INTEGRATION STARTS FEBRUARY, 2003
 - TEST ANTENNA SCHEDULED FOR APRIL, 2003