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SLAC's Software Engineering Newsletter

SLC Control Program

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Pro Matlab on SLC Vax

June 30, 1987

Author: *John Zicker* **Subsystem:** *SLC Vax* **User Impact:** *?????*
Panel Changes: *None* **Documents:** *Yes* **Help File:** *None*

The VAX implementation of PRO-MATLAB has been installed on the SLC VAX. PRO-MATLAB is an enhanced version of the MATLAB some of you are familiar with. PRO-MATLAB provides interactive software for: matrix computations, applied mathematics, time-series analysis, signal processing, control systems analysis and 2D and 3D graphics. Since PRO-MATLAB is interactive no programming is required to quickly solve numerical problems. Documentation is available as a users manual and lots of examples. PRO-MATLAB requires a terminal with Tektronix graphics compatability. Hardcopy of the graphics output is available on the Imagen laserprinter. I have played with PRO-MATLAB for a few weeks and can provide some assistance with your applications.

Twiss for WIRE monitors and dither coils

June 26, 1987

Author: *Mark Woodley* **Subsystem:** *Final Focus* **User Impact:** *Small*
Panel Changes: *None* **Documents:** *None* **Help File:** *No*

The Final Focus "dither coils" and WIRE monitors have been added to the models. Support is now provided for putting Twiss parameters in the database for these devices when you perform a PUT TWISS IN DB from the Model OPTICS panel.

Magnet Diagnostics Panel

June 30, 1987

Author: *Nobu Toge* **Subsystem:** *Magnets* **User Impact:** *Small*
Panel Changes: *None* **Documents:** *No* **Help File:** *None*

The [TRIM FUNCT] button (TRIM enable/disable) has been disabled for ordinary magnets (i.e. LGPS, COR, QUAD, etc), in order to avoid confusion/mistakes. Now this button works only for the ARC magnet movers. Its primary purpose is, as described earlier, to flag a stuck magnet mover which has not yet been repaired.