

## CURRENT CSR ACTIVITIES

by J. H. Saltzer

## I Performance Analysis and Modeling

1. Scheffler - Analysis of movable head media
  - Analysis of folded drum
  - Statistical analysis program package
2. Frankston - Core metering
3. Greenberg - Disk reference tracing
  - 6180 hardware timing analysis
4. Hunt - Benchmark development
  - System 17 -- system 18 comparisons
5. Reed - Dynamic control of Multiprogramming level
6. Gifford - 6180 hardware measurements

## II Protection and Security

1. Saltzer - Paper on protection
2. Schroeder - Paper on protected subsystems
3. Bratt - Protected subsystem encapsulation proposal for Multics
4. Janson - Removal of linking from protected area
5. Clark - Removal of I/O control from protected area
6. Feiertag - Multiprocess organization to simplify protected area
7. Voydock - Large segment numbers to simplify supervisor/file system
  - Exploring problems of auditing present Multics
8. B. Williams, DeRoma, Pineda - Practice audit of supervisor argument handling

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### III ARPA network

1. Padlipsky - Unified user-level protocol
  - Network working group protocol meetings
  - Network liason for Multics site
2. Kanodia - New software for full-duplex IMP connection
  - Input strategy revision for IMP DIM
3. Meyer - Integrate NCP/Network Daemon with new Multics operations interface
  - NCP design documentation
  - NCP conversion to v2PL/I
4. Gumpertz - Design and build hardware for 6180 full duplex IMP connection
5. J Williams - Construct hardware for IMP connection to 6180
6. Pogran - Coordinate cabling 6180 (bldg 39) to IMP (bldg NE43)
  - Coordinate MAC terminal system with network plans
  - Net mail integration with Multics
  - File transfer protocol implementation
7. Wells - Implement new Telnet protocol

### IV Miscellaneous Activities

1. Martin, Jones, Carey, Grant -- Multics documentation
2. Reed, Bricklin, Lamson, Moon, Sunguroff -- Multics LISP
3. Green - Seal (code generator for new language)
4. Stern - Information backup which scales up better
5. Mabee, Wells -- 6180 conversion support
6. Frankston - Marketplace view of the computer utility
7. Bricklin - APL proposal

### V Visitors' Activities

1. HISI staff (8) -- 6180 conversion support
2. Oda (Toshiba) -- Studying Multics
3. Hansen -- Data management system query language
4. Gallager -- Studying computer systems