

and tape preparation. The applications themselves are perhaps the most varied at MSFC, covering language study and research for trajectory, orbit and automatic checkout use, thermodynamic and engine performance studies, flight experiment sequencing, vehicle stage modeling and simulation, orbit and trajectory calculations, and mission simulation.

The projected increased workload and need for additional computational capacity will be provided by the recently completed procurement for five UNIVAC machines (three at MSFC, two at Slidell). These machines, through the use of remote terminals and time sharing, will optimize the utilization of Computation Laboratory capabilities and experience.

Business-type applications.- Three machines currently are used for these applications: an IBM 7740 and two IBM 7010 machines. One IBM 7010 and the IBM 7740 utilize 31 remote input terminals to support the on-line inventory system to provide complete electronic processing of all supply transactions from receipt of request to shipment of material. The other 7010 performs processing needed for PERT, charting the POP, contracts and change order, and control and engineering support applications. Business applications consist of payroll, labor distribution and costing, personnel records, and data management.

3.6.2 Computers in the Aero-Astroynamics Laboratory

Computers are installed in the Aero-Astroynamics Laboratory for data reduction and engineering and scientific calculations. They consist of the following machines:

CDC 3200.- This equipment supports aeroballistics research, lunar landing research, planetary orbit calculations, and heat studies.

GE 205.- This equipment supports a requirement for reduction of wind-tunnel data and general engineering calculations associated with wind-tunnel use.

GE 205.- This computer performs meteorology computations in support of the weather station by calculating atmosphere profiles and reducing weather data.

SDS 930.- These machines support light dynamic, thermodynamic, and aeroballistic studies.