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Control Overview GNC Subsystem Software Navigation U S Attitude Control Subsystem Motion Control System MCS Operations GNC Computer System Details Global Positioning System ACS Performance Capabilities GNC OPS Guidance is used to tell the Station which route to follow from point A to point B For the Station this is generally executed as a point and fire reboost The U S GNC Subsystem provides some guidance planning support however guidance is generally a Russian function Navigation is composed of the functions state determination attitude determination and Pointing and Support P S This definition is different from that used on Shuttle where navigation and state determination terms are used interchangeably State determination answers the question Where am I attitude determination answers the question How am I oriented and Pointing and Support answers the question Where is everything else The U S GNC Navigation Subsystem consists of software components residing in U S GNC Multiplexer Demultiplexers MDMs and a set of GNC Orbital Replacement Units ORUs The U S GNC Navigation Subsystem maintains the onboard estimate of the position velocity attitude and attitude rate of the ISS after Flight 8A State determination provides the ISS state vector position and velocity at a specific time The Global Positioning System GPS enables the Station to determine its position and velocity without ground uplinked data The GNC flight software maintains precision estimates of position and velocity through propagation algorithms These propagators accept periodic updates of the state vector data Data is nominally provided by GPS but may also be provided by RS or ground based updates The RS GNC exchanges data with the U S GNC MDMs for redundancy and comparison tests The U S GNC Subsystem uses a GPS interferometry technique to determine the attitude of the Station The GPS provides attitude updates to the U S GNC software once every 10 seconds when at least four GPS satellites are in view Two Rate Gyro Assemblies RGAs provide attitude rate information to propagate the attitude between GPS updates

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CBSKY4 Paul V. Noah, Meg A. Noah, Air Force Research Laboratory (Hanscom AFB, Mass.). Space Vehicles Directorate, Mission Research Corporation, 2001 The CBSKY4 component to the Celestial Background Scene Descriptor CBSD provides positions and fluxes for over 10 000 cataloged stars and stars produced by a statistical number density $\log N \log S$ Wavelength coverage is from 2 to 30 micrometers plus the Johnson BVJHK bands the COBE DIRBE 2.4 micrometers band IRAS 12 and 25 micrometers TD1A 1565 A FAUST 1660 A and the Apollo 165201 1400 A band Spectral energy distributions of all stars are provided through 87 spectral templates The model provides images over the entire sky and rectangular or gnomonic projection images of narrower fields of view Output files give statistics in the scene The user provides the time look angles band parameters predefined band response function or an upper and lower limit and image size requirements This document is a users guide to the CBSKY4 model NASA Project Gemini Familiarization Manual National Aeronautics and Space Administration, 2011 *Space Programming Language/mark Iv (spl/mk Iv). Reference Manual* SYSTEM DEVELOPMENT CORP SANTA MONICA CALIF., 1970 The report is a reference programmer s manual for Space

Programming Language Mark IV SPL MK IV SPL MK IV has been implemented on the IBM 360 series computers and will be implemented on the CDC 6000 series The manual includes a description of all the SPL forms their interpretation numerous examples and compiler diagnostics Author NASA Project Gemini Familiarization Manual United States. National Aeronautics and Space Administration,McDonnell Douglas Corporation,1965 **Project Gemini Familiarization Manual** United States. National Aeronautics and Space Administration,McDonnell Douglas Corporation,1964 *Manufacturing Plan* George C. Marshall Space Flight Center. Fabrication and Assembly Engineering Division,1962 **Project Gemini Supplement Familiarization Manual** United States. National Aeronautics and Space Administration,McDonnell Douglas Corporation,1965

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