



S-70 Seahawk Mission Processor Software Development



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Mission Processor Software displays the tactical picture on the Multi Functional Displays to the pilot and the Tactical Sensor Operator by collecting information from the configured sensors on Sikorsky S-70B Helicopter such as radar, ESM, FLIR and sonar. Pilot can then use the defense systems, which may be configured in several combinations of torpedoes and missiles, as well as chaff/flare against the airborne, surface or subsurface targets. The software also aids pilot on how to use the selected weapon effectively.

The mission computer software includes the following functions and controls:

- Navigation
- Guidance
- Communications and Radios
- Mission Sensor Control and Display
- System Status, Test, and Monitoring
- Tactical Data Management
- Tactical Display Generation
- 1553B and ARINC 429 I/O

MilSOFT team has participated the following activities:

- Software Requirements Refinement
- Detailed Software Design
- Code Development and Software Test Procedures
- Software Integration and Testing

System Functions

- Ada-83 programming language
- Real-time embedded software for TMS320C31
- Sophisticated command and control capability
- Preparation of tactical picture and display and update of track data
- Data Link capability via Link-11
- Communication with avionics via MIL-STD-1553B and ARINC-429 data busses
- Display of sensor, weapon and avionics statuses by IBIT and CBIT functionality