Welcome to GSAW2004!

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30 March 2004
Ground – Space System Software

• **Large** software-intensive systems
  – SLOC order of magnitude
    • $10^6 – 10^7$ on the ground
    • $10^5$ onboard

• **Complex and Critical**
  – Unprecedented / low technology readiness
  – Multiple ground elements, frequently worldwide
  – Multi-satellite constellations
  – Combinations of hardware and software
  – External and internal interfaces
  – High reliability and integrity requirements
Software Growth in Space Systems
Current and Projected

ESLOC (M) - Equivalent Source Lines of Code (Millions)