

Welcome to GSAW2004!

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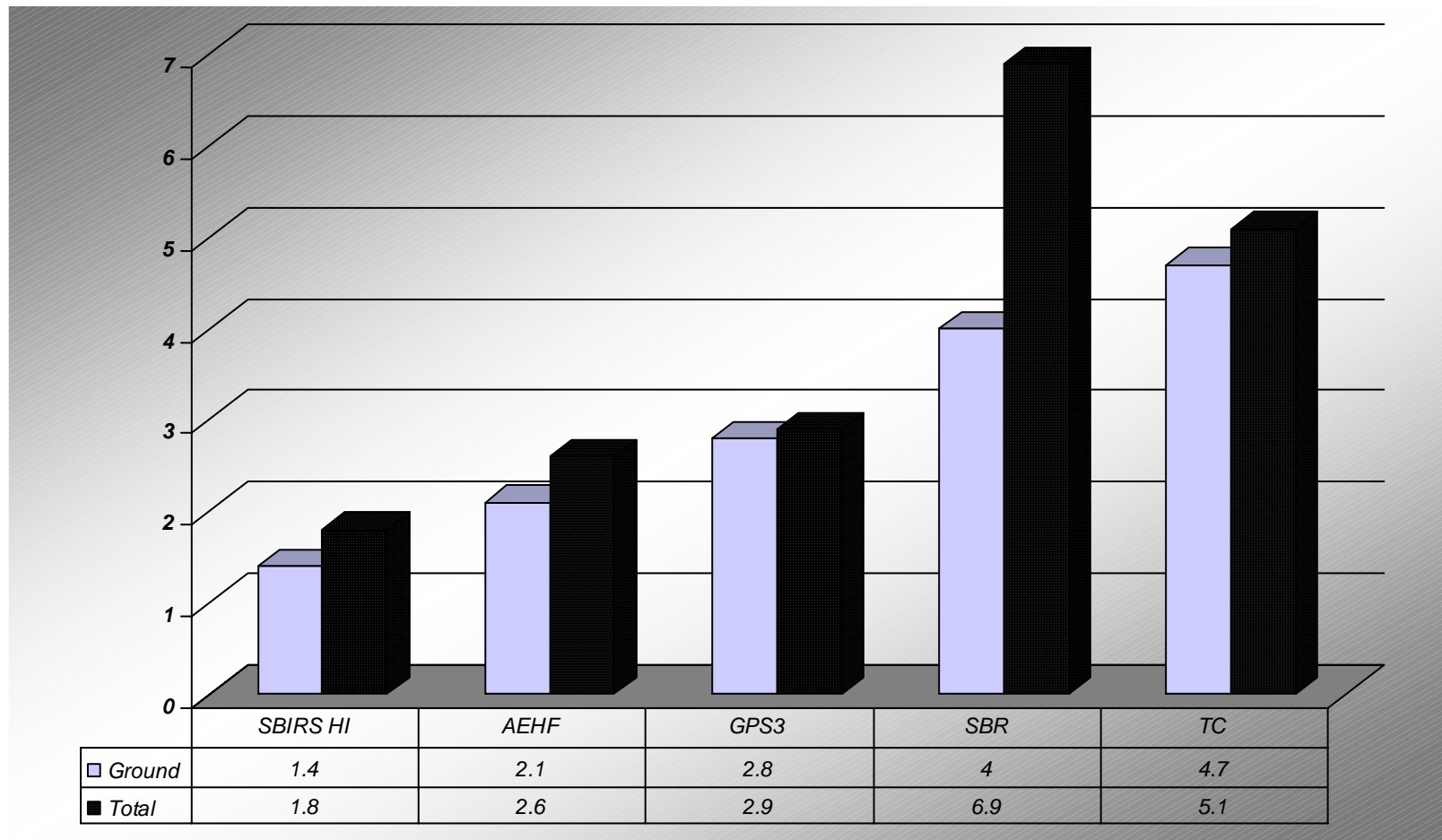
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Ground – Space System Software

- **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)