The Flux Project

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http://www.cs.utah.edu/projects/flux/

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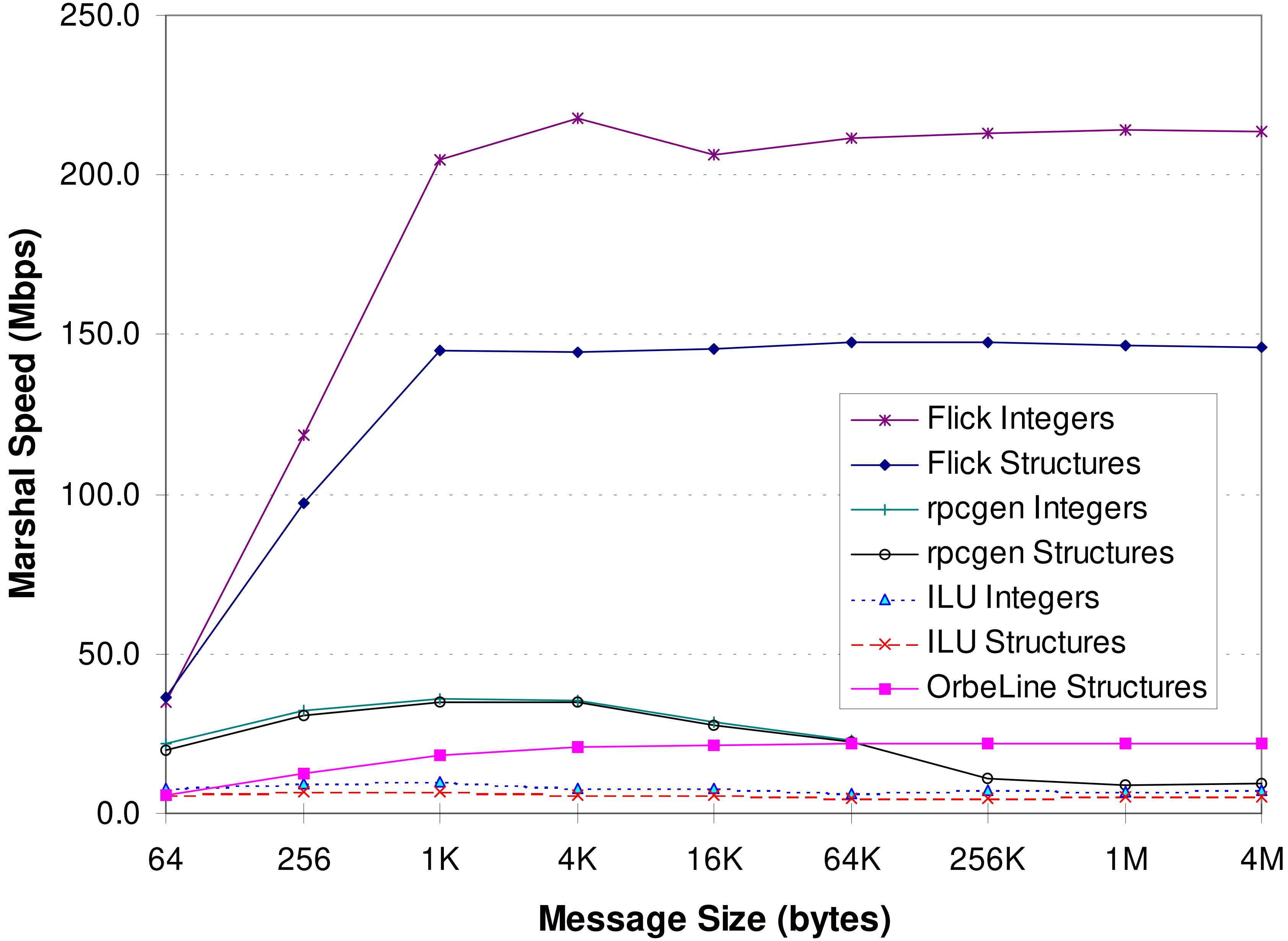
Major Projects

- **Fluke**: model, kernel, and operating system
- **High confidence**: resource management, high assurance, information security
- **Flick**: flexible, optimizing IDL compiler supporting interface annotation
- **OS Toolkit**: modularized infrastructure for OS’s

Digression:
Flick - Optimizing IDL Compiler

- (talk off of Flick picture)
- IDL: interface defintion language
- Presentation layer (data marshaling, encoding, conversion) becoming bottleneck as transport overhead plummets and OS gets clever
- Apply traditional compiler techniques
- Use powerful intermiedate representations
- ....


Marshal Speed (Mbps)
250.0
200.0
150.0
100.0
50.0
0.0
64
256
1K
4K
16K
64K
256K
1M
4M
Message Size (bytes)
Flick Integers
Flick Structures
rpcgen Integers
rpcgen Structures
ILU Integers
ILU Structures
OrbeLine Structures