









Profiling vs Tracing	
 Profiling 	(Contd)
Recording summary information (time, #calls, #misses)	
 About program entitles (functions, objects, basic blocks) 	
Very good for quick, low cost overview	
Points out potential bottlenecks	
Implemented through sampling or instrumentation	
Moderate amount of performance data	
 Tracing 	
Recording information about events	
Trace record typically consists of timestamp, processid	
Output is a trace file with trace records sorted by time	
Can be used to reconstruct the dynamic behavior	
Creates huge amounts of data	
Needs selective instrumentation	
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Characteristics of Performance Visualization Tools

Evaluation of tools public or commercial tools are based on the following parameters.

- Accuracy ; Simplicity ; Flexibility
- Intrusiveness
- Abstraction
- Robustness
- Usability
- Scalability
- Portability
- Versatility











Portability	(Contd
Most parallel programmers will work on simultaneously or over time.	a number of platforms
Portability is a relative measure, which language used, compiler used and th various system area networks, compilers	n depends on both the ne target machine with and the system software
Programmers are understandably reluperformance tool every time they move to	ictant to learn a new a new platform.
Thus, we consider portability to be an portability, we look for whether the too platforms and for what MPI implementation handle.	n important feature. For ol works on most major ons and languages it can
The tool must be easily usable when networks, and the message passing lib should produce correct behavior.	compilers, system area praries are changed and













































	C-DAC HPCC Software : ABND	
♦ ABND) main GUI	
	- ABND: Automatic Communication Bottleneck Detector	
	Tool Setup Pass1 Setup Pass2 Setup	
	Task Harmerchy Task Graph Spaces Time Diagram	
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