DPCL Overview

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Motivation

- Problems to Solve
  - Too Many Requirements, Too Few Resources
  - Need a Better Solution
- Solution
  - Dynamic Probe Class Library (DPCL)
DPCL - Features

- Dynamic Instrumentation - Software Probes
- C++ Based Class Library
- Language/Programming Model Independent
- Scaleable
- Built In Security
- A Platform to Enable Tools Developers To Build Tools With Less Time And Effort
DPCL - Tools Platform

Traditional Tools Structure

Tools with DPCL

Compilers
Libraries
Hardware
O/S Services

Compilers
Libraries
Hardware
O/S Services

04/01/99
DPCL - Classes

- Application
  - PoeAppl
- Process
- SourceObj
  - Program, Modules, Functions, Data, Blocks
- InstPoint
- ProbeExp
- ProbeModules
- Phases
DPCL- Structure
DPCL / DynInst Library

- Used By DPCL Daemon
- IBM Implementation in Progress
- Platform Independence
- Portability
DPCL - Status

- Beta Version Released June 1998
- Beta 2 Jan. 1999
- PTools Project
- Promote as a Cross Platform Standard
  - Joint Project Agreement (JPA)
- Platform For Future Tools Development