

## A Component Architecture For High Performance Scientific

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### A Component Architecture For High

HIGH-PERFORMANCE SCIENTIFIC COMPUTING 163 A COMPONENT ARCHITECTURE FOR HIGH-PERFORMANCE SCIENTIFIC COMPUTING Benjamin A. Allan<sup>2</sup> Robert Armstrong<sup>2</sup> David E. Bernholdt<sup>1</sup> Felipe Bertrand<sup>3</sup> Kenneth Chiu<sup>4</sup> Tamara L. Dahlgren<sup>5</sup> Kostadin Damevski<sup>6</sup> Wael R. Elwasif<sup>1</sup> Thomas G. W. Epperly<sup>5</sup> Madhusudhan Govindaraju<sup>4</sup> Daniel S. Katz<sup>7</sup> James A. Kohl<sup>1</sup> Manoj Krishnan<sup>8</sup> Gary Kumfert<sup>5</sup> J. Walter Larson<sup>9</sup>

### A COMPONENT ARCHITECTURE FOR HIGH-PERFORMANCE SCIENTIFIC ...

A Component Architecture for High-Performance Computing\* David E. Bernholdt, Wael R. Elwasif, and James A. Kohl {bernholdtde,elwasifwr,kohlja}@ornl.gov Computer Science and Mathematics Division Oak Ridge National Laboratory P. O. Box 2008 Oak Ridge, TN 37831-6367 USA Thomas G. W. Epperly tepperly@llnl.gov Center for Applied Scientific Computing

### A Component Architecture for High-Performance Computing

Component-based architecture focuses on the decomposition of the design into individual functional or logical components that represent well-defined communication interfaces containing methods, events, and properties. It provides a higher level of abstraction and divides the problem into sub-problems, each associated with component partitions.

### Component-Based Architecture - Tutorialspoint

CiteSeerX - Document Details (Isaac Councill, Lee Giles, Pradeep Teregowda): The Common Component Architecture (CCA) provides a means for software developers to manage the complexity of large-scale scientific simulations and to move toward a plug-and-play environment for high-performance computing. In the scientific computing context, component models also promote collaboration using ...

### CiteSeerX — A Component Architecture for High-Performance ...

A Dynamic Component Architecture for High Performance Gameplay [GDC slides; Terrance Cohen of Insomniac Games] Close. 13. Posted by u/[deleted] 9 years ago. ... It isn't clear to me how they resolve instances of components from handles. although it seems to indicate that components are referenced by handles rather than memory pointers or pool ...

### A Dynamic Component Architecture for High Performance ...

Technology Component Architectures are used to capture the high-level, logical technology architecture that describes the classes of technology that should be used. This tutorial introduces the Technology Component Architecture and describes how they are defined in Essential Architecture Manager. Purpose

### Define Technology Component Architecture - Essential ...

The High Level Architecture (HLA) is a standard for distributed simulation, used when building a simulation for a larger purpose by combining (federating) several simulations. The standard was developed in the 90s under the leadership of the US Department of Defense and was later transitioned to become an open international IEEE standard.

### High Level Architecture - Wikipedia

Component-based software engineering (CBSE), also called components-based development (CBD), is a branch of software engineering that emphasizes the separation of concerns with respect to the wide-ranging functionality available throughout a given software system. It is a reuse-based approach to defining, implementing and composing loosely coupled independent components into systems.

### Component-based software engineering - Wikipedia

Architecture offers a world of possibilities for learning all sorts of things, in or out of the classroom. When children and teens design and create structures, they draw upon many different skills and fields of knowledge—math, engineering, history, social studies, planning, geography, art, design, and even writing.

### 10 Free High-Interest Lessons - Architecture for All Ages

Data Warehouse Architecture. ... A Datawarehouse is Time-variant as the data in a DW has high shelf life. There are 5 main components of a Datawarehouse. 1) Database 2) ETL Tools 3) Meta Data 4) Query Tools 5) DataMarts; These are four main categories of query tools 1. Query and reporting, tools 2.

### Data Warehouse Architecture, Concepts and Components

The architecture is a high-level presentation of the system that may be used as a focus for discussion by a range of different stakeholders. System analysis. Making the system architecture explicit at an early stage in the system development requires some analysis.

### Chapter 4. Architectural design

Component architecture. 04/18/2014; 2 minutes to read; In this article. Applies To: Microsoft Dynamics AX 2012 R3, Microsoft Dynamics AX 2012 R2, Microsoft Dynamics AX 2012 Feature Pack, Microsoft Dynamics AX 2012 This section lists Microsoft Dynamics AX components by functional category and describes the Microsoft Dynamics AX architecture of selected components.

### Component architecture | Microsoft Docs

The QC1 was specifically designed for portable applications, including SD cards, Bluetooth, WiFi, portable hard drives, media players, digital cameras, and other applications requiring high-density component architecture with low battery power requirements.

### Component architecture | Article about component ...

Now we are going to discuss Hive Architecture in detail. The article first gives a short introduction to Apache Hive. Then we will see the Hive architecture and its main components. We will also see the working of the Apache Hive in this Hive Architecture tutorial. Let us first start with the Introduction to Apache Hive.

### Apache Hive Architecture - Complete Working of Hive with ...

Abstract. The Common Component Architecture (CCA) provides a generically structured, language independent framework for component-oriented software development in high-performance computing.

### Toward a 1.0 specification of the Common Component ...

Angular Application - High Level Architecture An Angular application can be viewed as a tree of components. The application bootstraps using a component and rest of the application is then rendered with help of a number of sub-components. The following diagram shows how a typical

Angular application is divided into components:

**Angular application - Architecture Overview | DotNetCurry**

Teams is central to the logical architecture of productivity services in Microsoft 365 - including data governance, security, and compliance capabilities. This series of illustrations provides a view into the logical architecture of productivity services for enterprise architects, leading with Teams.

**Microsoft Teams IT architecture and telephony solutions ...**

A component represents a modular part of a system that encapsulates its contents and whose manifestation is replaceable within its environment. In UML 2, a component is drawn as a rectangle with optional compartments stacked vertically. A high-level, abstracted view of a component in UML 2 can be modeled as: A rectangle with the component's name

**What is Component Diagram? - Visual Paradigm for UML**

Kubernetes components. A K8s setup consists of several parts, some of them optional, some mandatory for the whole system to function. This is a high-level diagram of the architecture. Let's have a look into each of the component's responsibilities. Master Node. The master node is responsible for the management of Kubernetes cluster.

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