



THE POSSIBILITIES ARE INFINITE

PRIMECLUSTER

Global Cluster System — for non-stop business

Continuous availability of applications, services, and critical business data, is essential to remain competitive in today's market. Data must be available wherever and whenever. With failure not an option, your IT infrastructure must ensure that errors and malfunctions are minimized. Even if they do occur, downtime must not be significant and certainly not a threat to your company's financial health. PRIMECLUSTER software from Fujitsu protects your business from such risk by managing system redundancy.

PRIMECLUSTER overview

PRIMECLUSTER™ software from Fujitsu® is a 21st century cluster solution, developed using the combined clustering expertise of Fujitsu and Fujitsu Siemens Computers®. Now available worldwide, PRIMECLUSTER software from Fujitsu ensures high reliability and system optimization for enterprise computing environments by providing:

High-reliability/High-availability - World Class Standard

PRIMECLUSTER software works closely with PRIMEPOWER™ servers from Fujitsu to independently monitor (using separate processor) and immediately respond to system and component failures—should they occur. PRIMECLUSTER software accurately and quickly detects abnormal circumstances and immediately shifts operation to a standby server. High availability is maintained as service disruption and access interruption are both minimized. If a critical disk or other resource fails, it can be replaced without disturbing operation, using the

unparalleled combination of high availability features of PRIMECLUSTER software and PRIMEPOWER servers. System integrity is maintained as PRIMECLUSTER software performs file system recovery using special high-speed recovery functions.

PRIMECLUSTER software can also ensure the integrity of network connections by automatically scaling down performance or switching transmission paths in a multiplexed network. Overall, PRIMECLUSTER software enhances the availability of the entire system, including disks, the network, and servers, to provide the highest standards in reliability.

Excellent Scalability by full data sharing

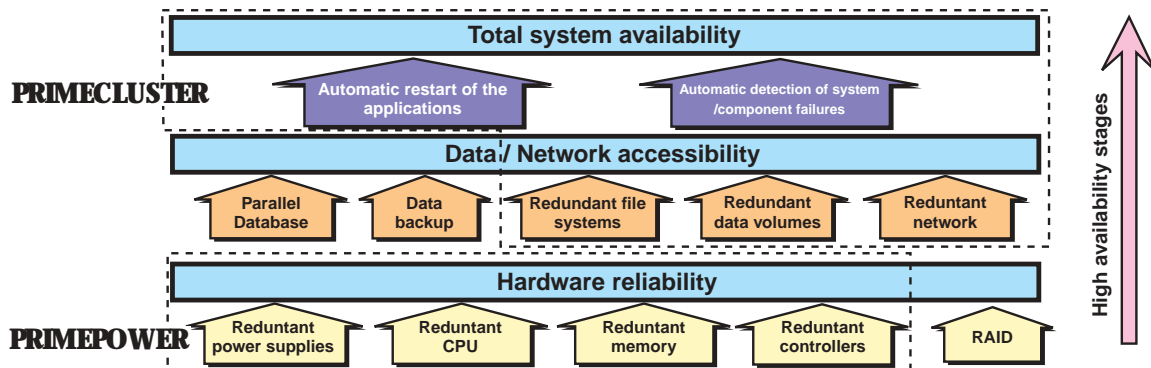
Today's IT business environment demands never-before seen flexibility to adapt to fast growing databases and transaction volumes.

PRIMECLUSTER software provides both parallel processing and distributed processing style cluster systems to optimize SAN (Storage Area Network) environments. As

business expands, it enables servers and storage to be added without disrupting ongoing operations. The data stored in the SAN environment can also be efficiently accessed from any server. Full data sharing is provided in addition to file system level sharing for true access and sharing of data. Furthermore, load distribution of network traffic is assured, and bandwidth is improved by simultaneous use of redundant paths in the network.

Manageability and ease of use

PRIMECLUSTER software makes it easy to manage the entire integrated cluster environment as a single entity. All the complexity of separately managing the servers and configuring the cluster and the physical connections of storage is removed. This is particularly effective in SAN environments, where many servers and storage devices may be connected.



PRIMECLUSTER Enterprise Edition software

This all-in-one package includes high availability, parallel database, and scalability functions. It is precisely adapted to manage a mixed cluster environment where switching, parallel, and scalable systems operate within the same cluster.

PRIMECLUSTER HA Server software

This provides the most common High Availability (HA) environments for general operational service and applications. Multi-directional failover and workload management ensures operational continuity. In addition, it provides for cluster-enabled storage management and a HA network.

PRIMECLUSTER Parallel Server software

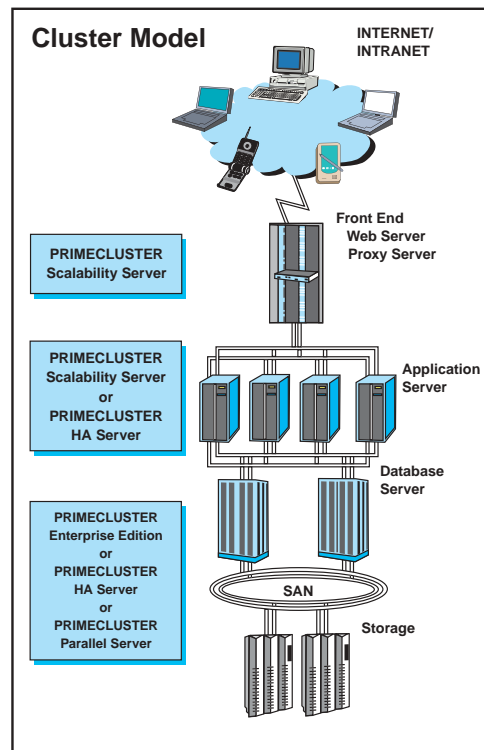
This provides for parallel database operation, enabling all servers to have simultaneous access. Even if a node fails, it provides continuous availability of all database, as well as database system accessibility and scalability. Additionally, cluster-enabled storage management and HA networking is assured.

PRIMECLUSTER Scalability Server software

This provides dynamic load balancing for TCP/IP based network services. It enables optimum response to be maintained even when facing sudden growth in your network load. Job growth is handled with great flexibility and efficiency by allowing the addition of servers without interruption of service.

PRIMECLUSTER Wizard Kit

This product generates wizards that allow for the operation of SRDF, SAP R/3, Oracle® software, etc. in a PRIMEPOWER cluster environment.



Components matrix

| | CF | RMS | PAS | SIS | WT | Wizard for XXX | GDS | GFS | GLS |
|---------------------------------|----|-----|-----|-----|----|----------------|-----|-----|-----|
| PRIMECLUSTER Enterprise Edition | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ |
| PRIMECLUSTER HA Server | ✓ | ✓ | | | ✓ | | ✓ | ✓ | ✓ |
| PRIMECLUSTER Parallel Server | ✓ | | ✓ | | | | ✓ | ✓ | ✓ |
| PRIMECLUSTER Scalability Server | ✓ | | | ✓ | | | | | |
| PRIMECLUSTER Wizard Kit | | | | | | ✓ | | | |

- CF = Cluster Foundation
 - RMS = Reliant Monitor Services
 - PAS = Parallel Application Services
 - SIS = Scalable Internet Services
 - WT = Wizard Tools
 - Wizard for XXX = Wizard for SRDF, Wizard for R/3, Wizard for DB
 - GDS = Global Disk Services
 - GFS = Global File Services
 - GLS = Global Link Services
- Cluster common architecture component
 - Fail-over manager monitoring of unusual situations in applications, hardware, and switching
 - Components for parallel database operation
 - Components providing network load balancing
 - Tools which generates Wizard to operate application on the PRIMECLUSTER
 - Application-specific Wizard
 - Component dealing with storage mirroring and management in the cluster-wide environment
 - Component providing "file system full-sharing" and excellent cluster-wide scalability
 - Component for continuous transmission in the event of network path or card failures

Operating conditions

Supported OS: Solaris™ 8 or later
 Base system: PRIMEPOWER server from Fujitsu



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