

Tandem Computers Overview

Background

Tandem Computers, Incorporated, offers a full range of computing systems, expanding from small multiprocessor departmental machines to very large transaction processing systems. The company is a leader in the worldwide on-line transaction processing (OLTP) market, one of the fastest growing markets in commercial data processing. Tandem pioneered on-line, fault-tolerant computing, and is the primary supplier of such systems.

Tandem concentrates on transaction processing systems that consist of many processors, distributed databases, and large networks. Because the Tandem architecture is specifically engineered for distributed OLTP, Tandem applications support many thousands of terminals, intelligent workstations, and other devices. Tandem's fundamental advantages are in OLTP price/performance, linear expandability of processing power, fully distributed SQL databases, data integrity, security, and fault tolerance.

Tandem now offers Macintosh personal computers as part of its product line, bringing Macintosh into major corporate OLTP systems.

TheEnvironment

Tandemcomputersareinstalledbybanks,manufacturers,majorretailers,andother transaction-orientedbusinesses.Manyautomatictellermachine(ATM)systems, stockexchanges,bankfunds-transferoperations,manufacturingapplications,and libraryservicesrunonTandemcomputers.Inaddition,morethan200third-party softwarevendorsprovideapplicationsolutionsforTandemcustomers.

TandemComputers: TheHardwareEnvironment

Tandemnetworkscanhaveasmanyas255separatenodes(locations),eachof whichcanbeconfiguredtosupportupto16processors.UsingtheGUARDIAN90 operatingssystem,allTandemsystemsareabletoshareapplications,distributed databases,andcommunications.

HardwareandsoftwarearedesignedspecificallyforOLTP,andTandem'smodular designallowsuserstodevelopsystemsovertimeandtodistributeprocessing withoutchangingtheirapplications.Fulldataintegrityguaranteesthatdistributed customerdatabaseswillbeconsistentandaccurateaftereverytransaction.

TandemprovidesacomUNICATIONSSupportenvironmentthatincludesintegrated supportforTCP/IP,NetBIOS,SNA,X.25,andotherindustrystandardprotocols. Tandemsystemsarecompatiblewitharangeoflanguages,includingPascal,C, FORTRAN,COBOL,andtheTandemApplicationLanguage(TAL).