

Title (en)

SCALABLE SINGLE SYSTEM IMAGE OPERATING SOFTWARE ARCHITECTURE FOR A MULTI-PROCESSING COMPUTER SYSTEM

Title (de)

SKALIERBARE BETRIEBSSOFTWARE-ARCHITEKTUR MIT EINEM EINZIGEN SYSTEM-ABBILD FÜR EIN MULTIPROZESSOR-COMPUTERSYSTEM

Title (fr)

ARCHITECTURE LOGICIELLE DILATABLE A PRESENTATION UNIFIEE POUR SYSTEMES INFORMATIQUES MULTIPROCESSEURS

Publication

**EP 1064597 A1 20010103 (EN)**

Application

**EP 98962876 A 19981203**

Priority

- US 9825586 W 19981203
- US 887198 A 19980120

Abstract (en)

[origin: WO9936851A1] A scalable single system image ("S3I") operating system architecture for a multi-processing computer system having separate service (16) and computational (18) processors and wherein a unique distinction exists between the processors but both have shared, common access to all of the computer system memory. The computational processors have no input/output ("I/O") devices mapped directly onto them while the service processors have full I/O capability. A single operating system software image presents a single system application programming interface to application programs across all of the processors and a communication mechanism between the computational and service processors allows multiple requests to the service processors and fast, asynchronous interrupt responses to each request. A computational scheduler executes on each computational processor and provides the interface to the service processors where the operating system software executes.

IPC 1-7

**G06F 9/00**

IPC 8 full level

**G06F 9/46** (2006.01); **G06F 9/50** (2006.01); **G06F 9/54** (2006.01); **G06F 15/16** (2006.01)

CPC (source: EP)

**G06F 9/50** (2013.01); **G06F 9/5066** (2013.01)

Citation (search report)

See references of WO 9936851A1

Designated contracting state (EPC)

BE CH DE ES FR GB IT LI NL SE

DOCDB simple family (publication)

**WO 9936851 A1 19990722**; CA 2317132 A1 19990722; EP 1064597 A1 20010103; JP 2002509311 A 20020326

DOCDB simple family (application)

**US 9825586 W 19981203**; CA 2317132 A 19981203; EP 98962876 A 19981203; JP 2000540495 A 19981203