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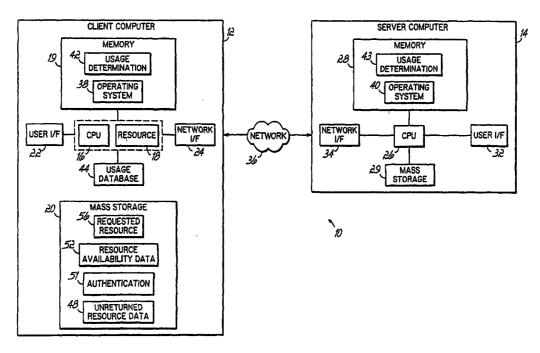
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(54) Title: SYSTEM FOR DETERMINING UNRETURNED STANDBY RESOURCE USAGE



(57) Abstract: An apparatus, program product and method for determining unreturned standby resource usage. Unreturned standby resource data is monitored and stored separately from other standby resource data for billing and other accounting purposes. The monitoring program operates on a server computer connected to a client computer on which the resource data is to be monitored.

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B. FIELDS SEARCHED

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

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EPO-Internal, WPI Data, IBM-TDB

	IENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the	e relevant passages	Relevant to claim No.
X	ANONYMOUS: "Sun Enterprise 10 on Demand 1.0 Administrator Gu SUN MICROSYSTEMS, INC., October 1999 (1999-10), pages XP002319318 Retrieved from the Internet: URL:http://www.sun.com/products/hardware/docs/pdf/806-2190-1 page 1 - page 13	ide" I-16, s-n-solution	1-43
χ Furl	ther documents are listed in the continuation of box C.	Patent family members are listed	in annex.
"A" docum consid "E" earlier filing of "L" docum which citatio "O" docum other "P" docum	ategories of cited documents: nent defining the general state of the art which is not dered to be of particular relevance document but published on or after the international date ent which may throw doubts on priority claim(s) or is cited to establish the publication date of another on or other special reason (as specified) ent referring to an oral disclosure, use, exhibition or means ent published prior to the international filing date but than the priority date claimed	"T" later document published after the int or priority date and not in conflict with cited to understand the principle or the invention. "X" document of particular relevance; the cannot be considered novel or cannot involve an inventive step when the description of the cannot be considered to involve an indocument is combined with one or ments, such combination being obvious in the art. "&" document member of the same paten	n the application but neory underlying the claimed invention to considered to coument is taken alone claimed invention eventive step when the lore other such docupous to a person skilled
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	10 1 001 duly 2000	0,7,04,2003	

INTERNATIONAL SEARCH REPORT

Interna Pal Application No
PCT/EP2004/004531

		PCT/EP2004/004531
	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	ANONYMOUS: "IBM eserver iSeries? Versatile, Multi-Environment Servers for the Era of e-business on demand" IBM HARDWARE ANNOUNCEMENT, 24 January 2003 (2003-01-24), pages 1-34, XP002319319 Retrieved from the Internet: URL:http://www.at400.dk/pubfiles/iSeries8x x.pdf> page 3, left-hand column, line 10 - line 15 page 7, left-hand column, line 34 - page 9, left-hand column, line 28	1-14, 16-43
Х	US 5 745 879 A (WYMAN ET AL) 28 April 1998 (1998-04-28)	1-5, 8-14, 16-32, 34-37, 39,40, 42,43
A	abstract	6,7,15,
	column 11, line 1 - line 42 column 12, line 34 - line 62 column 14, line 21 - line 42 figure 2	33
X	WO 02/39671 A (CASIO COMPUTER CO., LTD) 16 May 2002 (2002-05-16)	1-5, 8-10, 12-14, 16-32, 35-37, 39,40,
A	abstract	42,43 6,7,11,
	page 7, line 26 - page 11, line 12 page 13, line 21 - page 27, last line	15,33,34
Α	FRIEDMANN K: "Wie gut sind Capacity-on-Demand-Angebote ?" COMPUTERWOCHE.DE, 13 February 2003 (2003-02-13), pages 1-6, XP002314033 the whole document	1-43
А	DE 100 07 599 A1 (SIEMENS AG) 1 March 2001 (2001-03-01) the whole document	1-37, 39-43

INTERNATIONAL SEARCH REPORT

Interna Pal Application No
PCT/EP2004/004531

		<u></u>
	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JANN J ET AL: "Web applications and dynamic reconfiguration in unix servers" PEFFORMANCE ANALYSIS OF SYSTEMS AND SOFTWARE, 2003. ISPASS. 2003 IEEE INTERNATIONAL SYMPOSIUM ON MARCH 6-8, 2003, PISCATAWAY, NJ, USA, IEEE, 6 March 2003 (2003-03-06), pages 186-194, XP010637411 ISBN: 0-7803-7756-7 page 186, right-hand column, line 32 - page 188, left-hand column, line 20	1,26,27, 29,38, 41-43

INTERNATIONAL SEARCH REPORT

information on patent family members

Internation No
PCT/EP2004/004531

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 5745879	A	28-04-1998	AT	175281 T	15-01-1999
			AU	659652 B2	25-05-1995
			ΑU	2015892 A	21-12-1992
			ΑU	2247092 A	21-12-1992
			DE	69228039 D1	11-02-1999
			DE	69228039 T2	05-08-1999
			DE	69228350 D1	18-03-1999
			DE	69228350 T2	23-09-1999
			EP	0538453 A1	28-04-1993
			EP	0538464 A1	28-04-1993
			ΙE	921475 A1	18-11-1992
			JP	3032788 B2	17-04-2000
			JP	6500878 T	27-01-1994
			NZ	242627 A	26-07-1995
			WO	9220021 A1	12-11-1992
			WO	9220022 A1	12-11-1992
WO 0239671	Α	16-05-2002	JP	2002152251 A	24-05-2002
			EP	1287643 A2	05-03-2003
			WO	0239671 A2	16-05-2002
			NO	20023273 A	28-08-2002
			US	2002054569 A1	09-05-2002
DE 10007599	A1	01-03-2001	NONE	——————————————————————————————————————	<u> </u>