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Internet

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( . LAN - Lokal Area Network )

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, ,

(Open System Interconnection) - Open Systems Interconnection (OSI). , OSI

(Organization). ISO

1.

.21. ISDN ( Integrated Services Digital Network) V.24 (CCITT), EIA RS232

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( : '0' '1').

8- , 4-, 5-, 6-, 7-

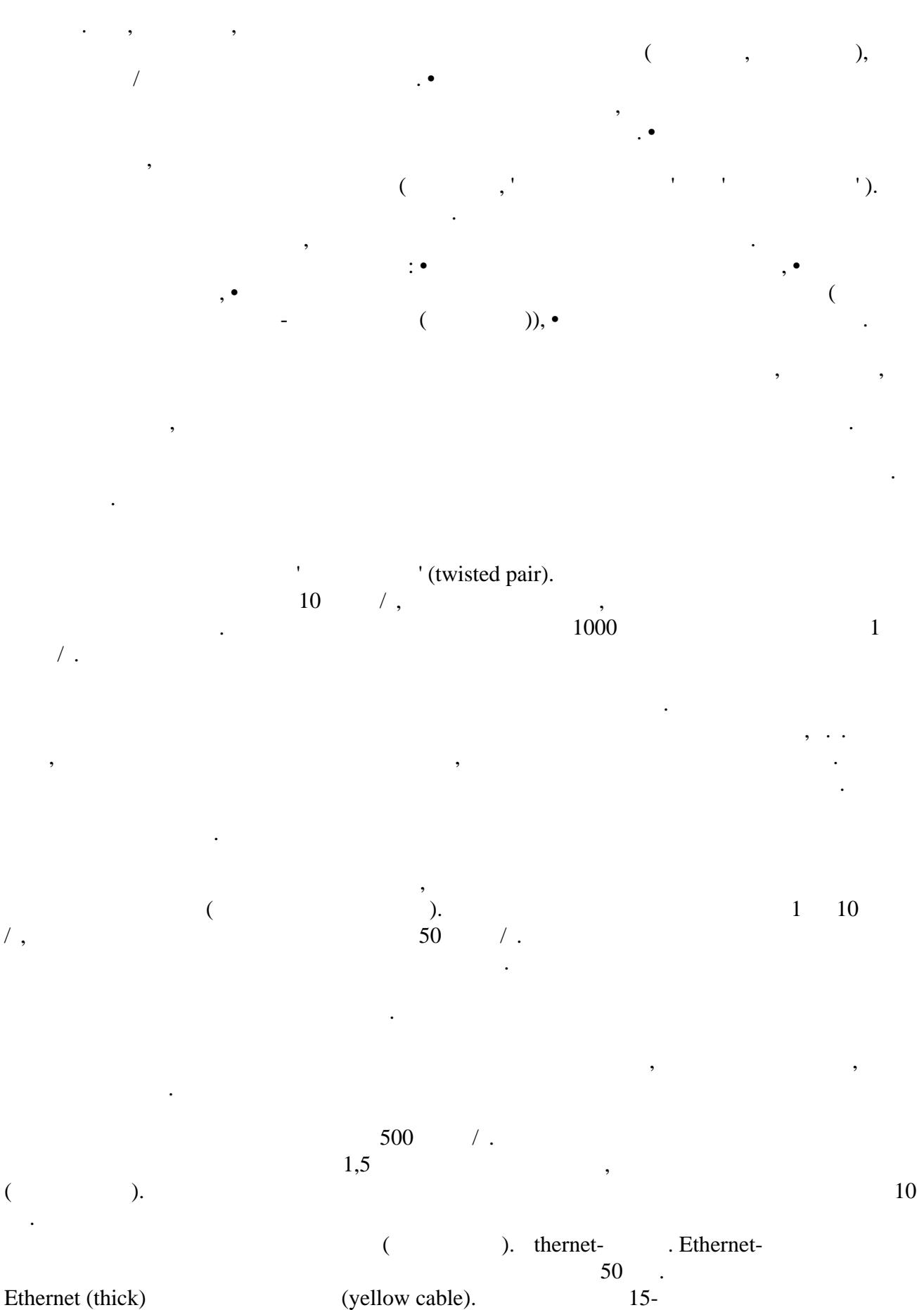
6- - 64 , 7- - 128 16 , 5- - 32 ,

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7-

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Ethernet - 3000 . Ethernet- ,  
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, (thin) Ethernet. Cheapernet- ,  
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Cheapernet-

( -50).

(T-connectors).

300 ,

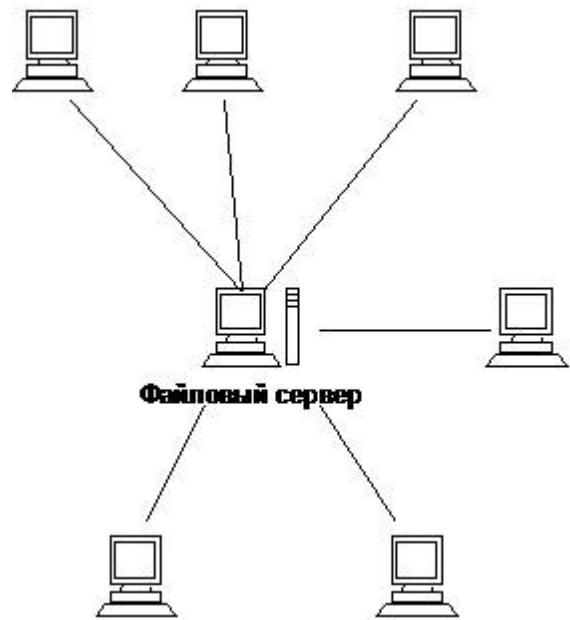
Cheapernet- 1000 .

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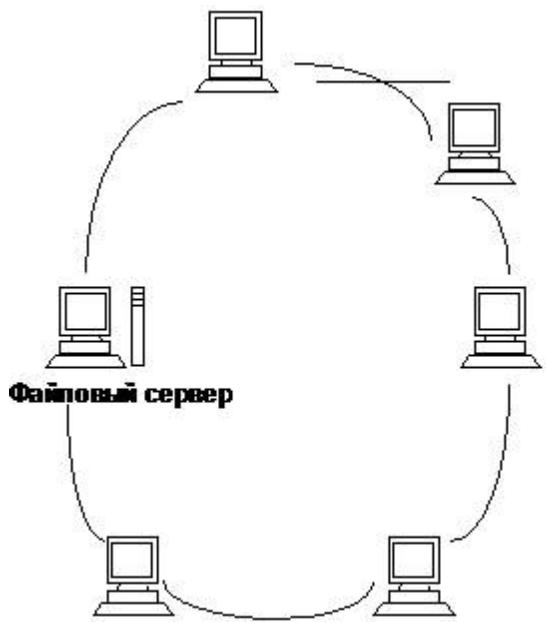
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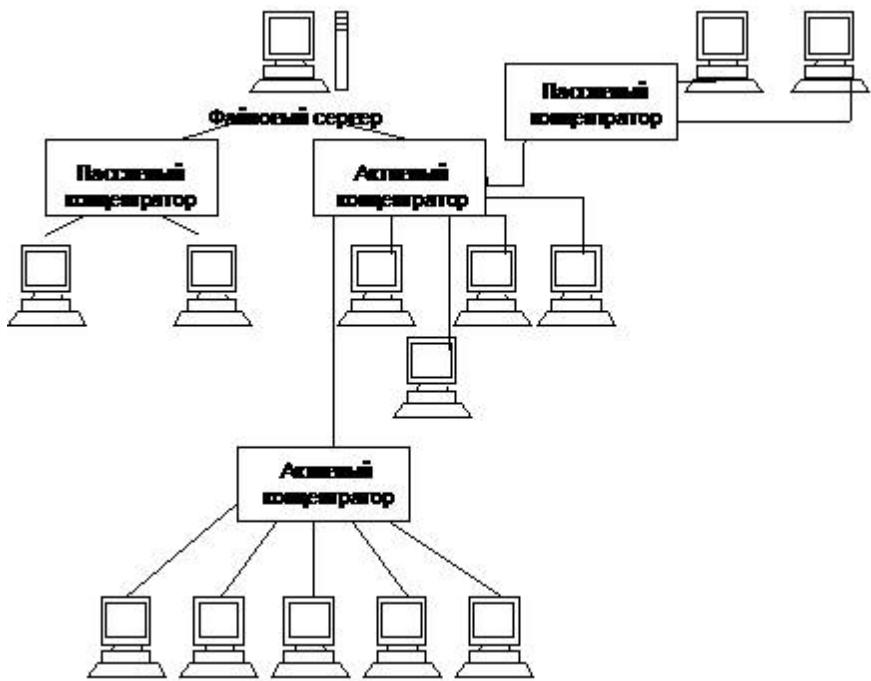
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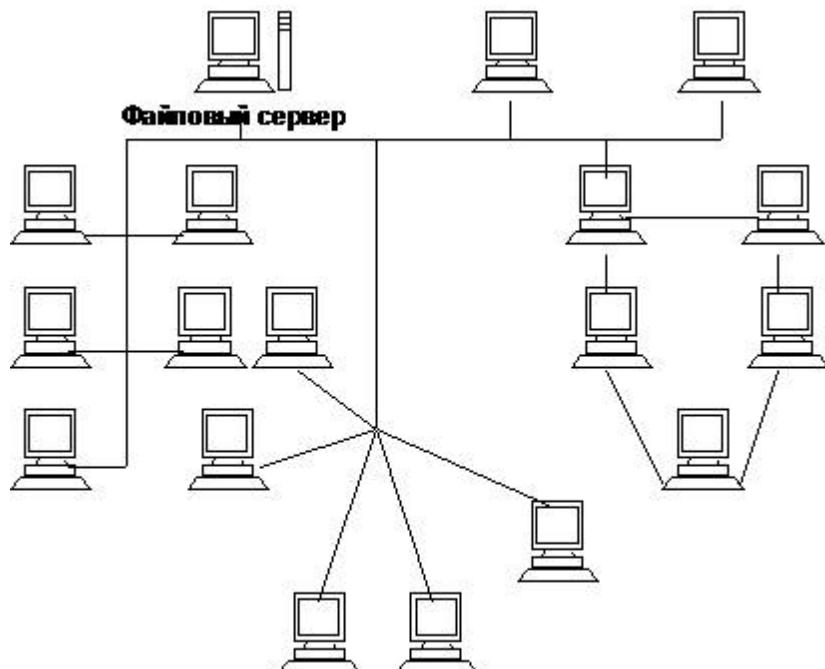
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Ethernet

Cheapernet- a e

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Token Ring

IBM.

(UPT SPT)

4 / 16 / .

( Token Ring).

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I k n Ring  
(Data/ mmand Frame);

(Token);

( bort).

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Arknet. Arknet (Attached Resource Computer NETWork ) -

Datapoint 1977

rcnet S (Standard Microsistem  
Corporation),  
rcnet. , (RG-62)  
93

- 2,5 / . rcnet

( ken Bus).

( ); ; ,

rcnet ISU(Information Symbol  
Unit - ), / ( 1 t  
urst),

: 1. I (Information To Transmit) - rcnet 5

, , . 2. FBE (Free Buffe  
nquiries) -

. 3. . 4.  
(ACKnowledgments) -

, . 5. NAK ( Negative AcKnowledgments) -

Arknet ( FBE )

Ethernet	Ethernet	Digital
Xerox Corporation.		
Equipment Corporation (DEC)	Intel Corporation.	IEEE 802.3.
Ethernet 2.0.	Ethernet	

Ethernet  
,

(Network  
Operation System - NOS ) -

: OS/2, Windows N , Windows 95.  
( L , D , IDAPI)

NOS

:  
(directo /nam service). NOS ,

(Bindery).

NetWare 28 NetWare v3.1 .

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LANServer LANMahager - (Domain).

(bindery),

( , ), , ,

, , , , ,

(Directory Name Services -

DNS)

DNS,

IDC

: NetWare v2. v . , Nowell Inc. 65%

LAN Server, I . 14% LAN Manager, Microsoft Corp. 3% VINES, n n Systems Inc. 2%

. NetWare 3.11, Nowell Inc.  
NOS;

: 38

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Nowell

: I /S

: 250.

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UPS: . S: .

: bind

III,

, SFT II,SFT  
bindery

( Block suballocations): .

LAN Server, I . : DOS, Windows, ( .), S/2( .), UNIX( .), Windows NT.

( SN ).  
S/2,

(nondedicated).

LAN Server: Entry Advanced. Advanced Entry  
HPFS). (High Perfomance File System -  
Security). (Fail Tolerances) (Local

OS/2

OS/2. LAN Server  
DOS, OS/2 Windows (Remote Interface Procedure Load - RIPL).  
NOS;

: 38

: 4.6 (requestor)/7.2

: 1.3 - 16

: 4.2 OS/2, 640 DOS.

: OS/2 2. .

: NetBIOS, /I .

: 1016. : 2

UPS: S:

(Block suballocation): .

: DOS, Windows, ( .), OS/2, UNIX, Windows NT ( .).  
VINES 5.52, Banyan System Inc. :

StreetTalk

NetWare 4 VINES

(enterprise network).

UNIX.

- StreetTalk,  
Services.

NetWare Directory

. StreetTalk -

.29

DOS

.25 ISDN. VINES

VINES.

: 386

: 80

: 8

- 25

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: UNIX.

: VINES I , AFP, NetBIOS,

/I , I /S

: - SMP(Symmetric MultiProcesing).

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UPS:

S:

: StreetTalk.

StreetTalk

(Block suballocation):

: DOS, Windows, ( .), S/2, UNIX( .), Windows NT ( .).

Windows NT Advanced Server 3.1, Microsoft Corp.

20

Windows 3.1,

(

, - Remote Access Service (RAS),

Windows NT

NetWare.

: 386

, MIPS, R4000, DEC Alpha

: 90

: 16

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N /512

DOS.

: Windows NT.

: NetBEUI,

/I , I /S

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lk,

syncBEUI.

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: -2. UPS: S:  
 : .  
 : , RAID 5,  
 :  
 : .  
 (Block suballocation): .  
 : DOS, Windows, , S/2, UNIX, Windows NT. NetWare 4, Nowell  
 Inc. :  
 (NetWare Directory Services - NDS)  
 1000. NDS ,  
 ( 1), ,  
 ,  
 ( NetWare 3). (Data Storage  
 Management) ,  
 : 1. (Block  
 Suballocation). 64 , 2 , 4 , 6  
 65 , , , NetWare 4  
 64 , 512 .  
 512 ,  
 . 2. (File Compression).  
 , ,  
 . 3. (Data Migration).  
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 ,  
 (Packet-Burst Migration).  
 ,  
 512 , : 20%.  
 NetWare 4 LIP (Large Internet Packet)  
 , 512

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DOS, Windows OS/2-

- 4

: 12 60 . . .

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: 40 . .

: Nowell. : I /S . .

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: -2. UPS: . S: . .

: NDS.

, , SFT II,SFT III,

NDS. . .

(Block suballocation): . .

: DOS, Windows, (5), S/2, UNIX( . ), Windows NT.

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, 1. ( . - 1) ( ,  
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Nowell NetWare

4.02 Windows 3.11 for WorkGroups

DOS. 2.

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Nowell NeWare 4.02

( . - 4).

Sun Spark Station

Unix SQL Server Windows NT

Unix/NetWare Windows NT/NetWare

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Nowell

Nowell NetWare 4.02

( IPX/SPX    TCP/IP)

Ethernet .

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FXOHBMUK-4GKW-57563-02;

F/O Patch Cable;

RG-58;

F/O Patch Panel;

' 10Base-T Level 5;

TP Patch Panel;

T-connector;

RG-58

' 10Base-T Level 5

CMMR-1440 Multi-Media Repeater;  
Concentrator;

10Base-T UTPC-1220

10Base-T UTPC-6100 Concentrator.

, 3

, IBM PC/AT486DX, 3- - Pentium 120  
Novell NetWare Unix-

( - ),2  
/40/4.2G,

Sun Sparkstation.