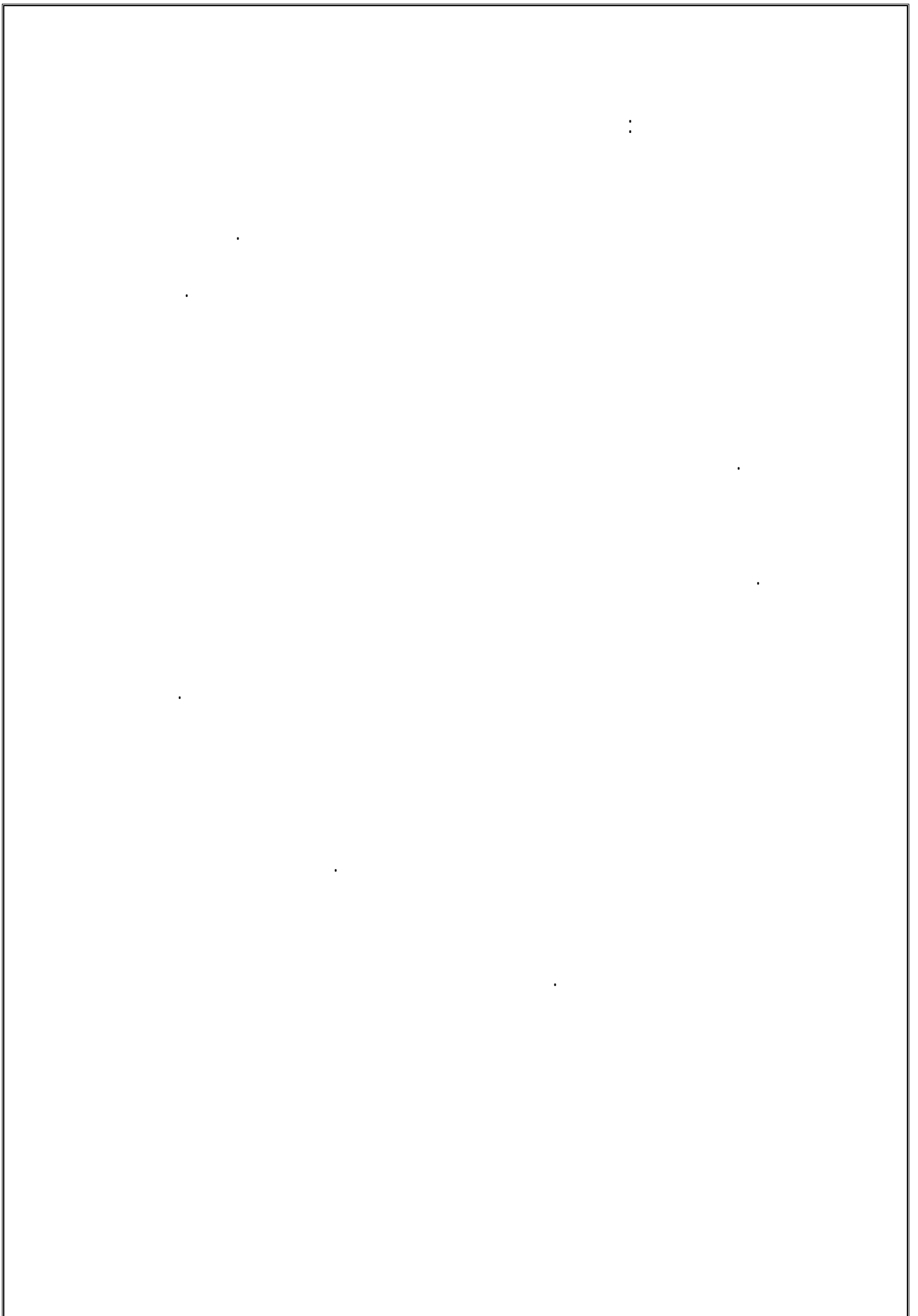


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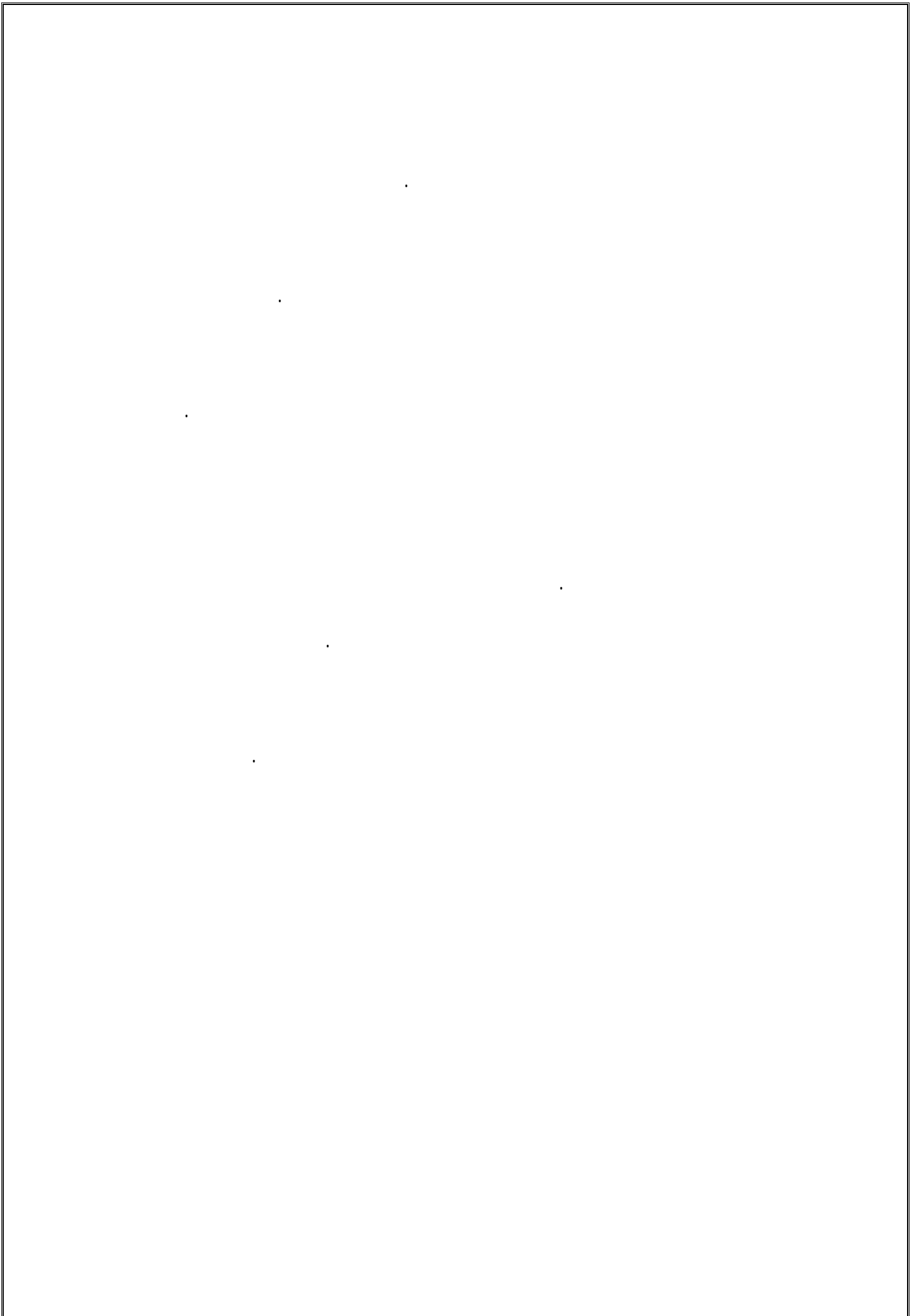


linux windows

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linux

Microsoft



:(Operating System (OS))

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:(user layer)

!

:(hardware layer)

... CDROM

...

:(software layer)

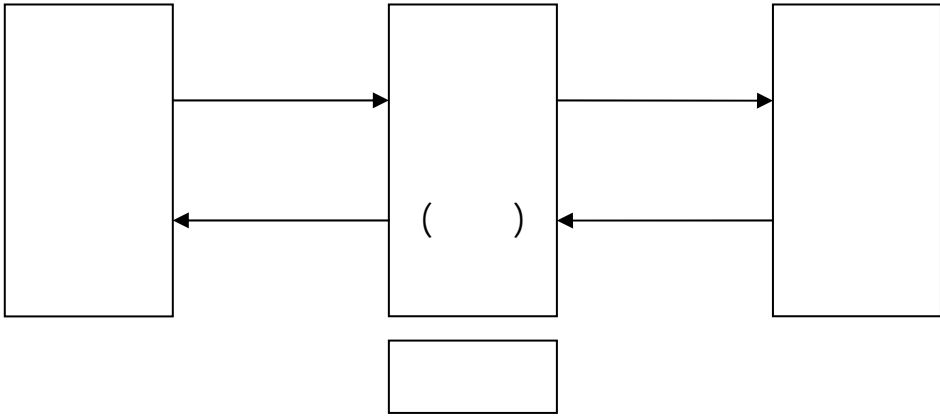
CDROM

CD

CD

CDROM

floppy



- Input ()
- Output ()
- I/O ()

Input

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output

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(

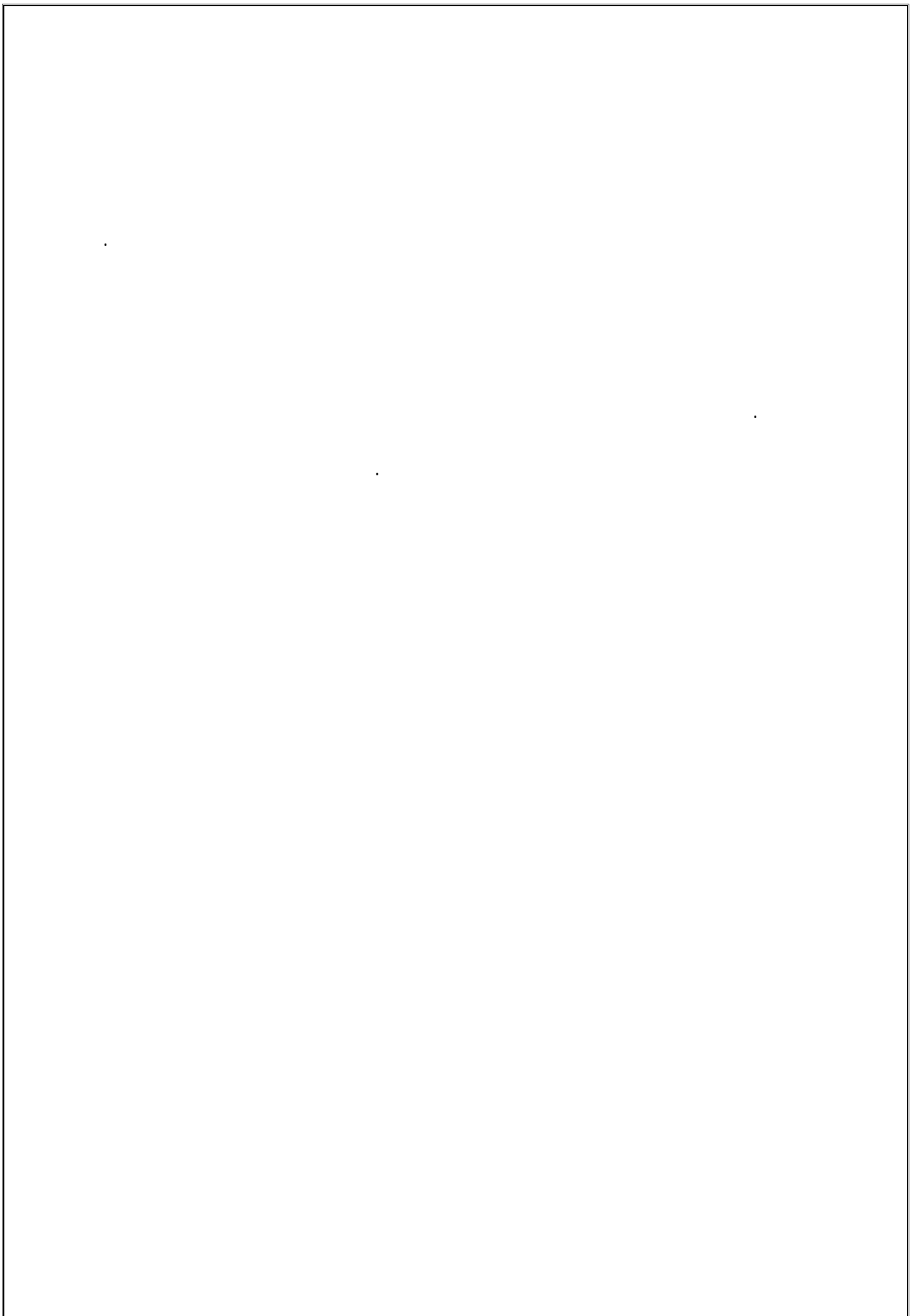
(Operating System)

(

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·

(multi user)



:Interface (

Interface

Interface

Interface

Interface

Interface

Interface

Interface

Interface

Interface

User friendly

User friendly

...

Interface

User friendly

!!!

Interface

Interface

Interface .

Microsoft

: (

()

Interface

ATI

OS

MB

OS

ATI

MB

OS

OS

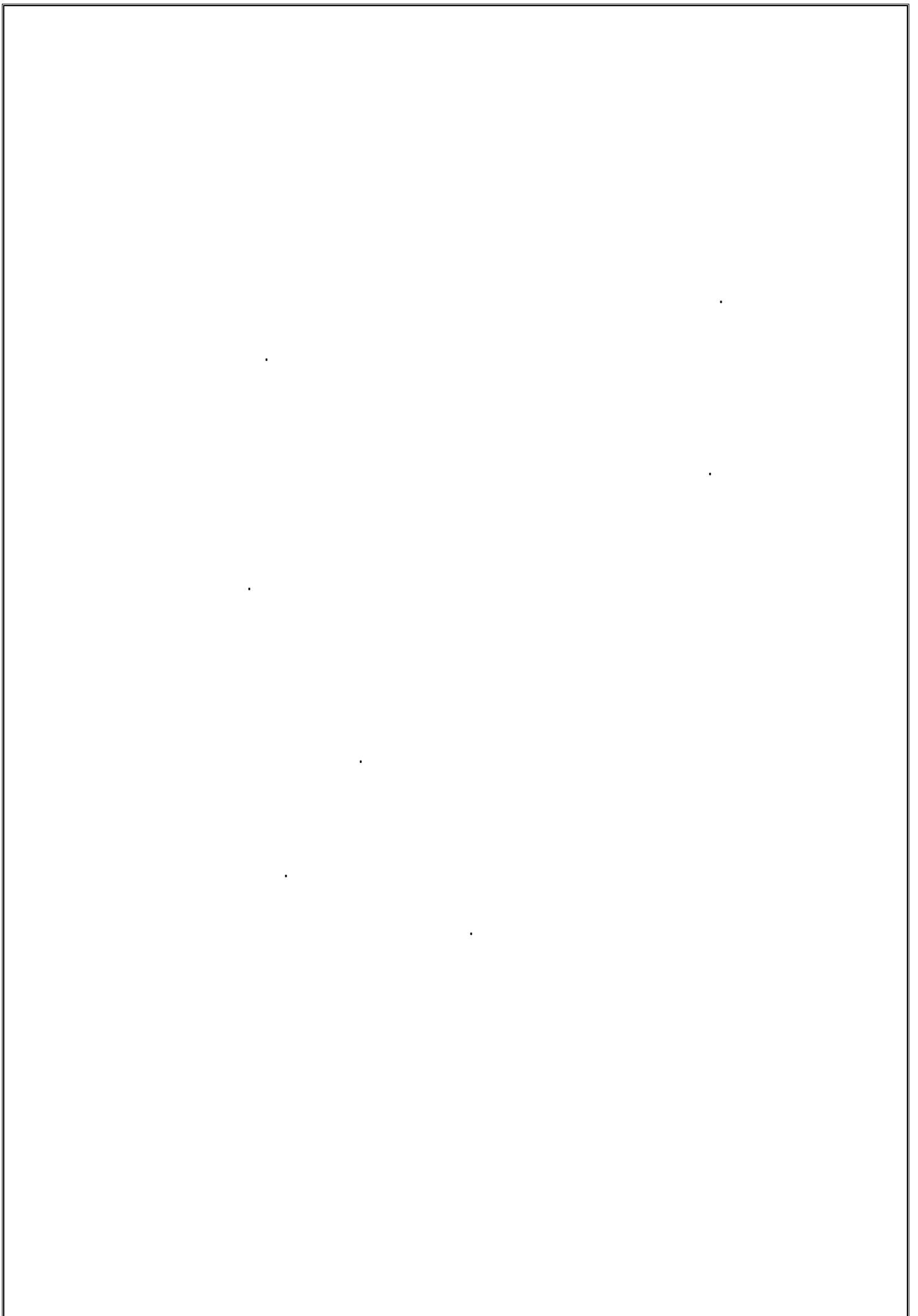
OS

OS

!...

Microsoft

XP



:(File System)

(

Memory

RAM

RAM

Disk

:

(

(

Blue Ray

DVD

CD

Flash Disk

Flash

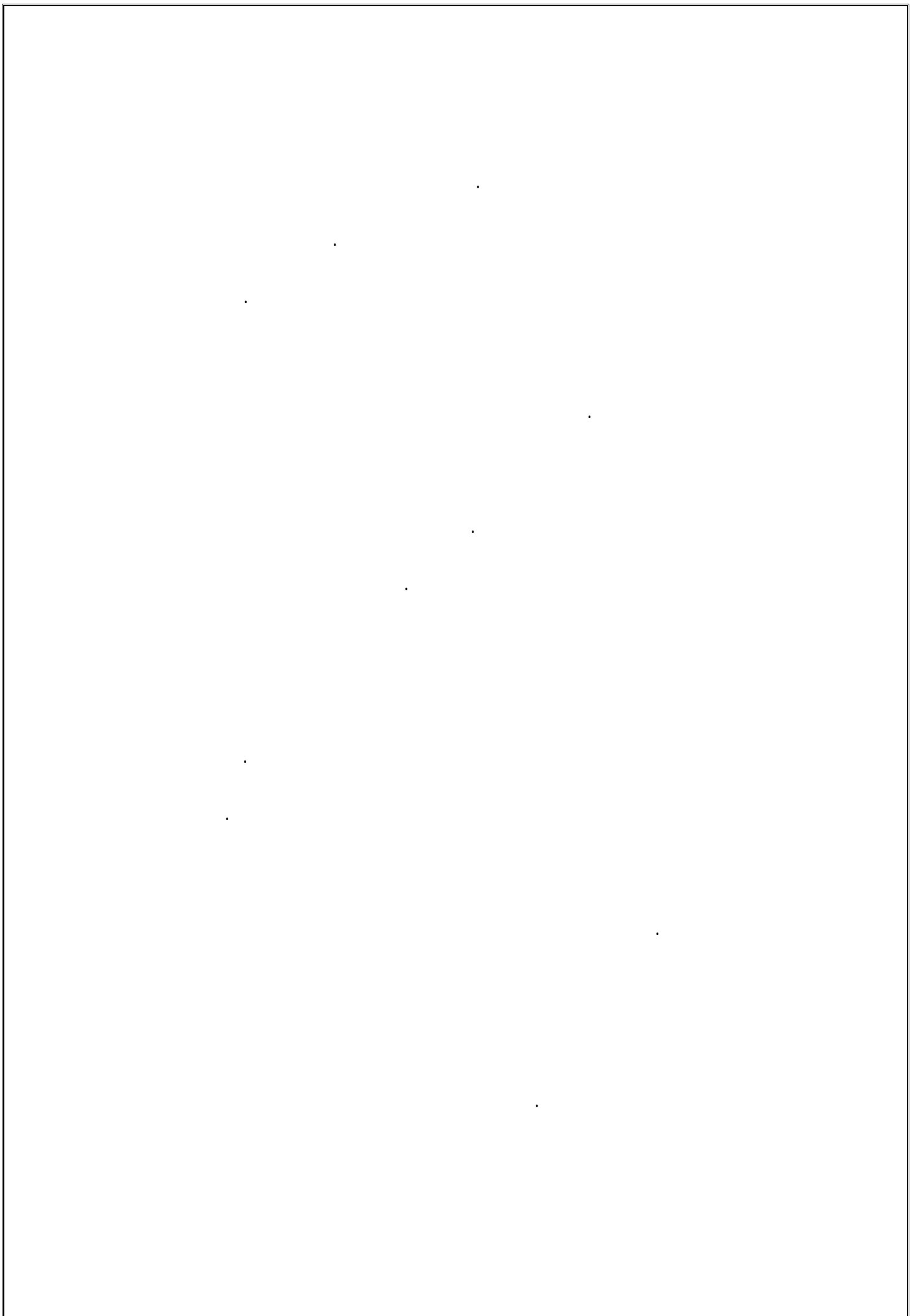
FAT

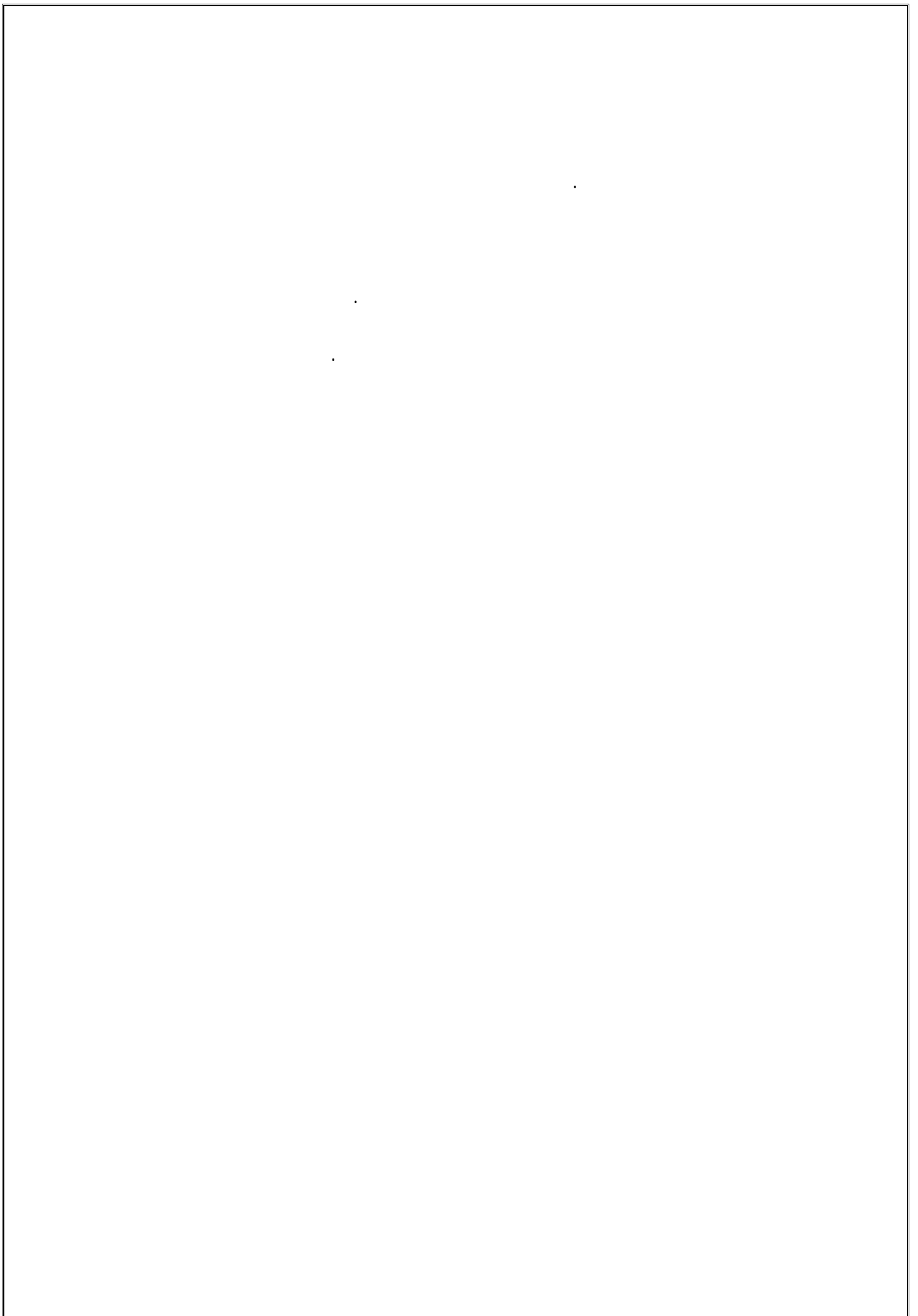
NTFS

XP

NT

FAT





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Application

App.

App.

App. ACDSec

App.

App.

App.

App.

platform

App.

App.

App.

App.

App.

App.

App.

setup

exe

App.

App.

dsmax

Mac

Jet Audio

App.

App.

App.

:

(

Microsoft

CD

Microsoft

App.

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App.

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free

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: (

liscense

App.

App.

CD

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App.

App.

Microsoft

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(

RAM

MB

. RAM

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RAM

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RAM

RAM

RAM (

CPU

RAM .

RAM

CPU

RAM

load

RAM

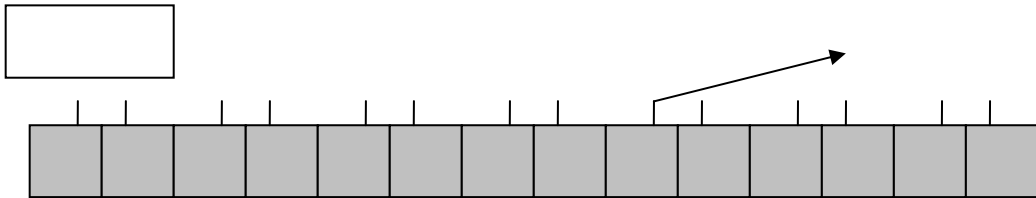
RAM (

RAM

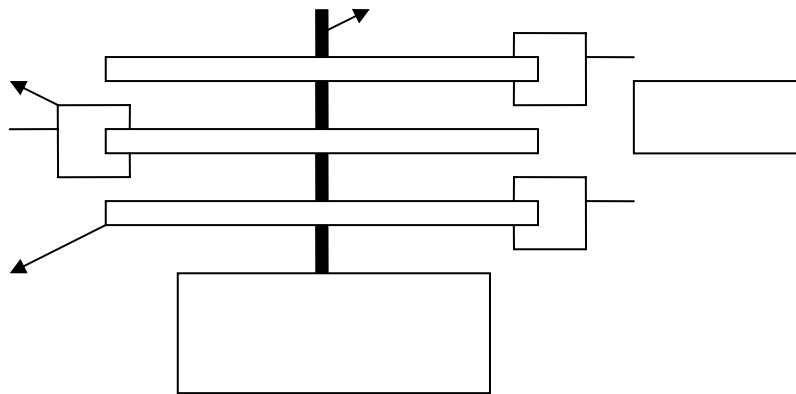
RAM

RAM

RAM



RAM



RAM

RAM

secret

RAM

RAM

CPU

(

)

RAM

bus

Sata

Data

RAM

CPU

RAM

RAM

GB

GB

RAM

RAM

RAM

RAM

RAM

GB

RAM

RAM

GB

MB

RAM

RAM

RAM

RAM

RAM

RAM

OS

MMS

:

(

OS

MMS

MHZ GHZ

FSB

RAM CPU

RAM

FSB

RAM

RAM

CPU RAM

MMS

MMS

MMS

Interface

Multi Tasking (

:

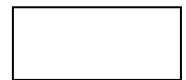
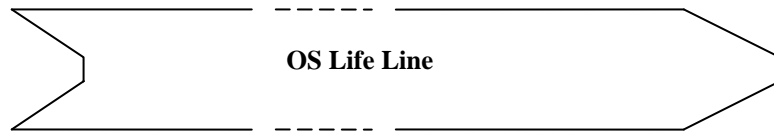
Multi tasking

Dos

Dos

Dos

boot



OS

RAM

DOS

edit

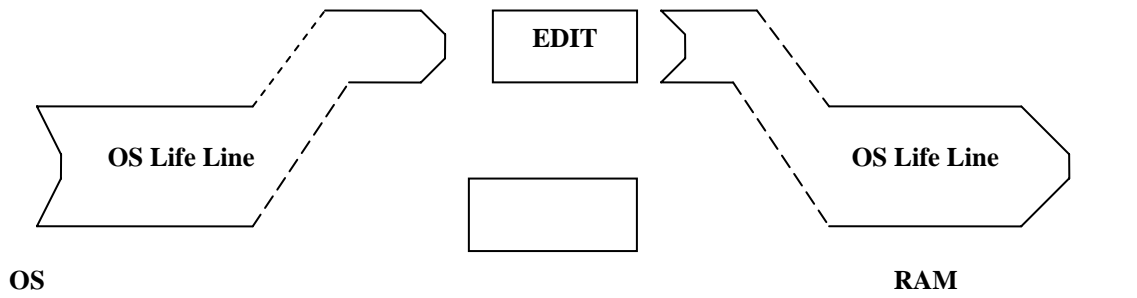
DOS

edit

DOS

edit

DOS



OS

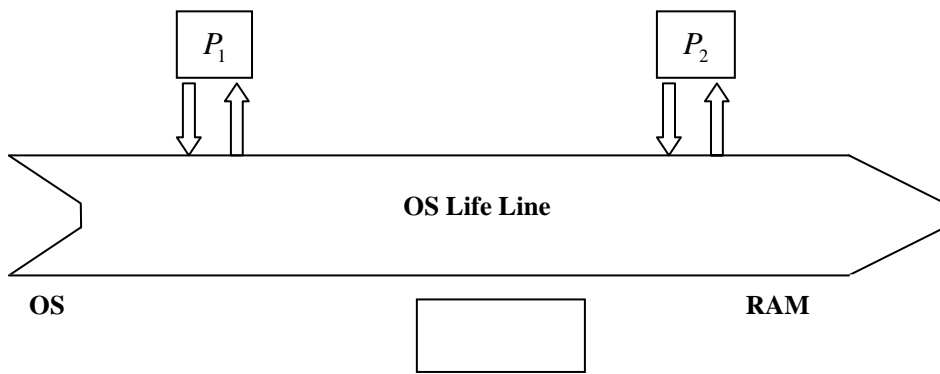
DOS

DOS

UNIX

UNIX

DOS



OS

OS Life Line

RAM

OS

P P

P

P

OS

OS

P

terminate

instruction

CPU

CPU

CPU

CPU

CPU

CPU

CPU

:Networking

(

Network

OS

:

)
CD :

!!

(... Flash DVD

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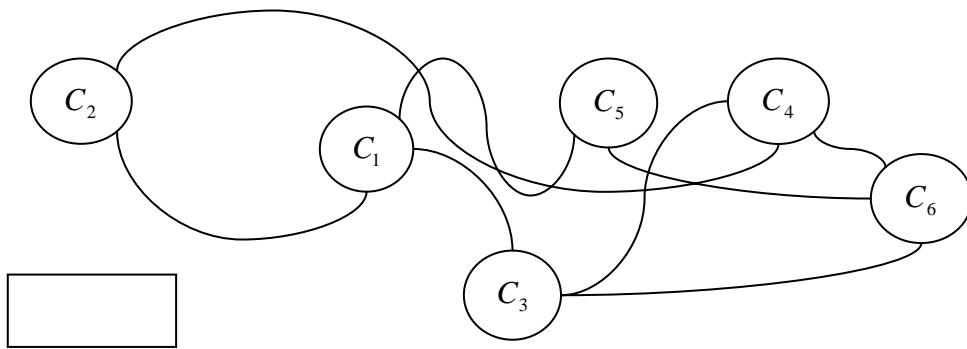
EMS !

!!

Network

Network
(Information Sharing)

Toppology

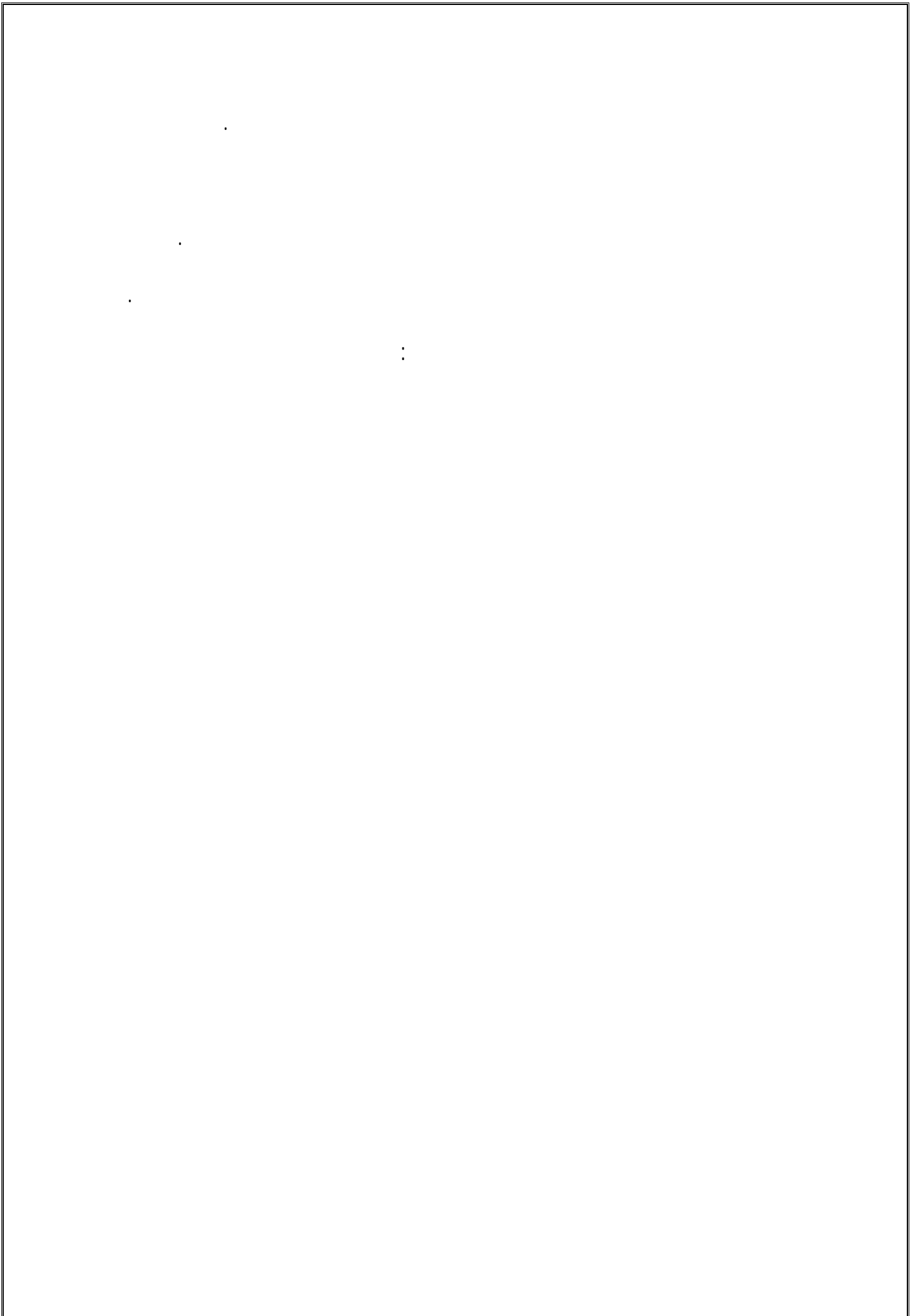


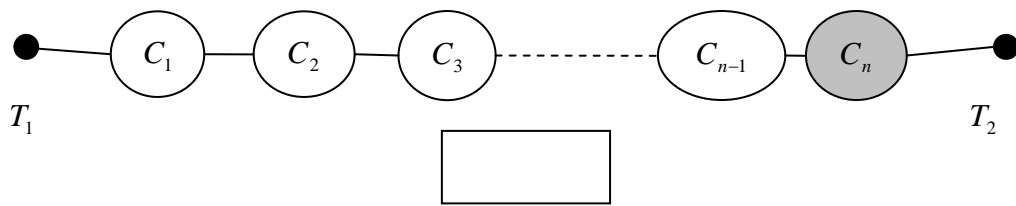
C C
C

C - C

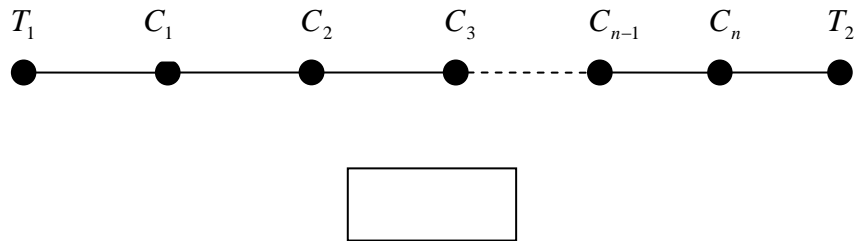
C

C - C



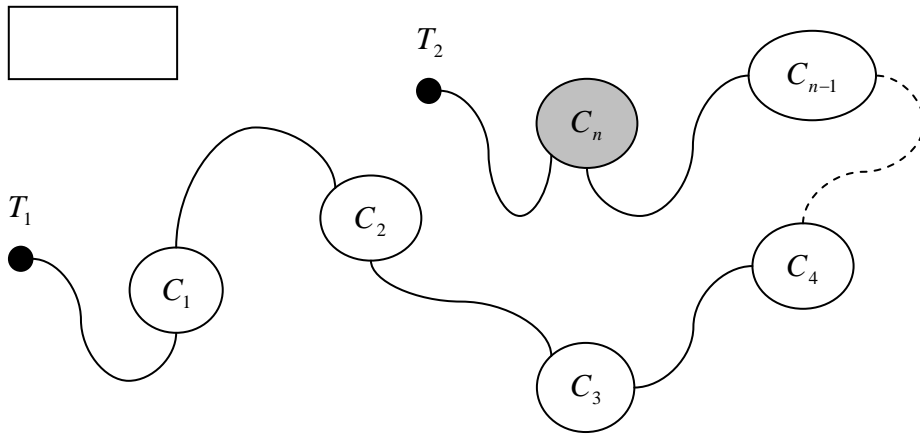


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T T

Terminator

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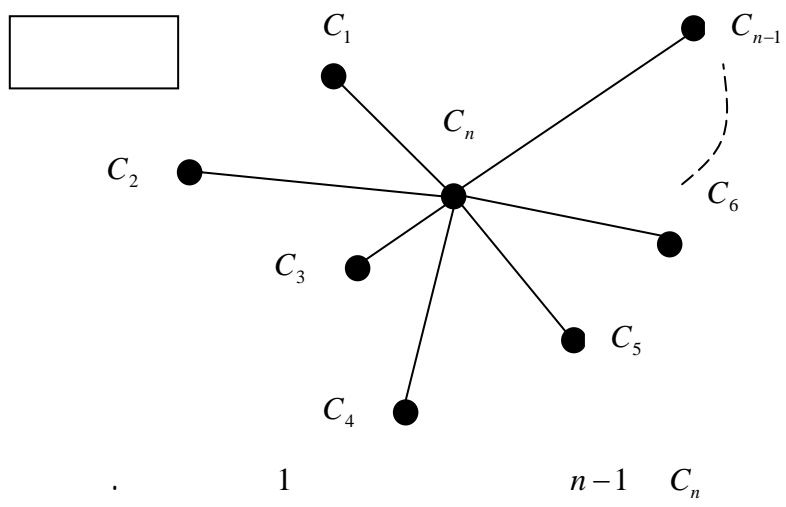
Star

n

n

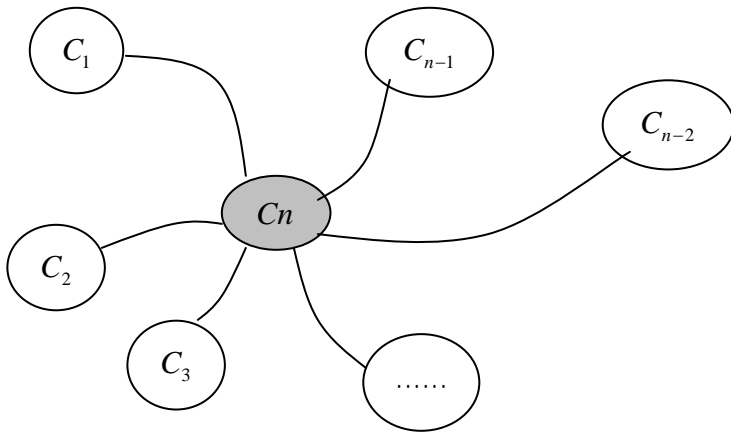
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n



) *Client - Server*

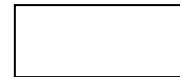
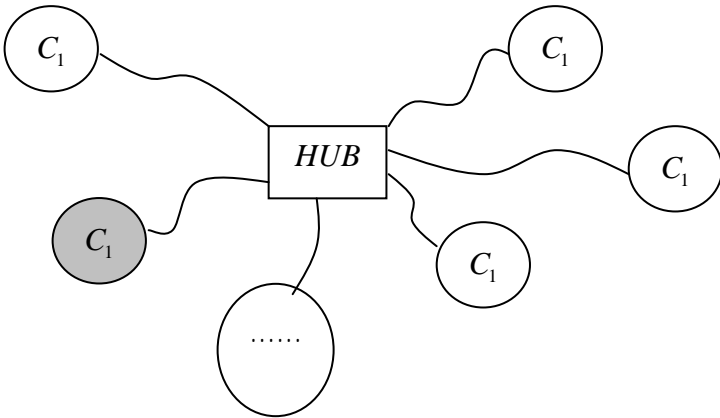
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HUB

Switch

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Switch HUB

Switch HUB

C_1

HUB

C_3

... " C_3 "

Switch *HUB*

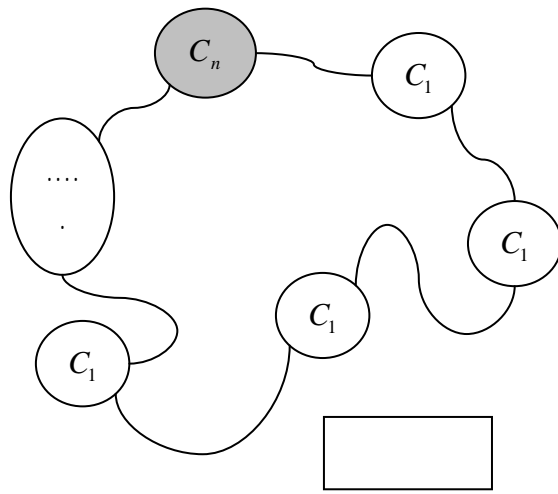
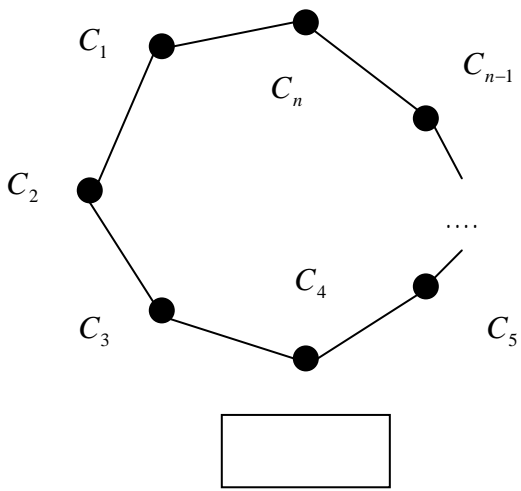
Switch

C_3

Server

Server

:(Token Ring)

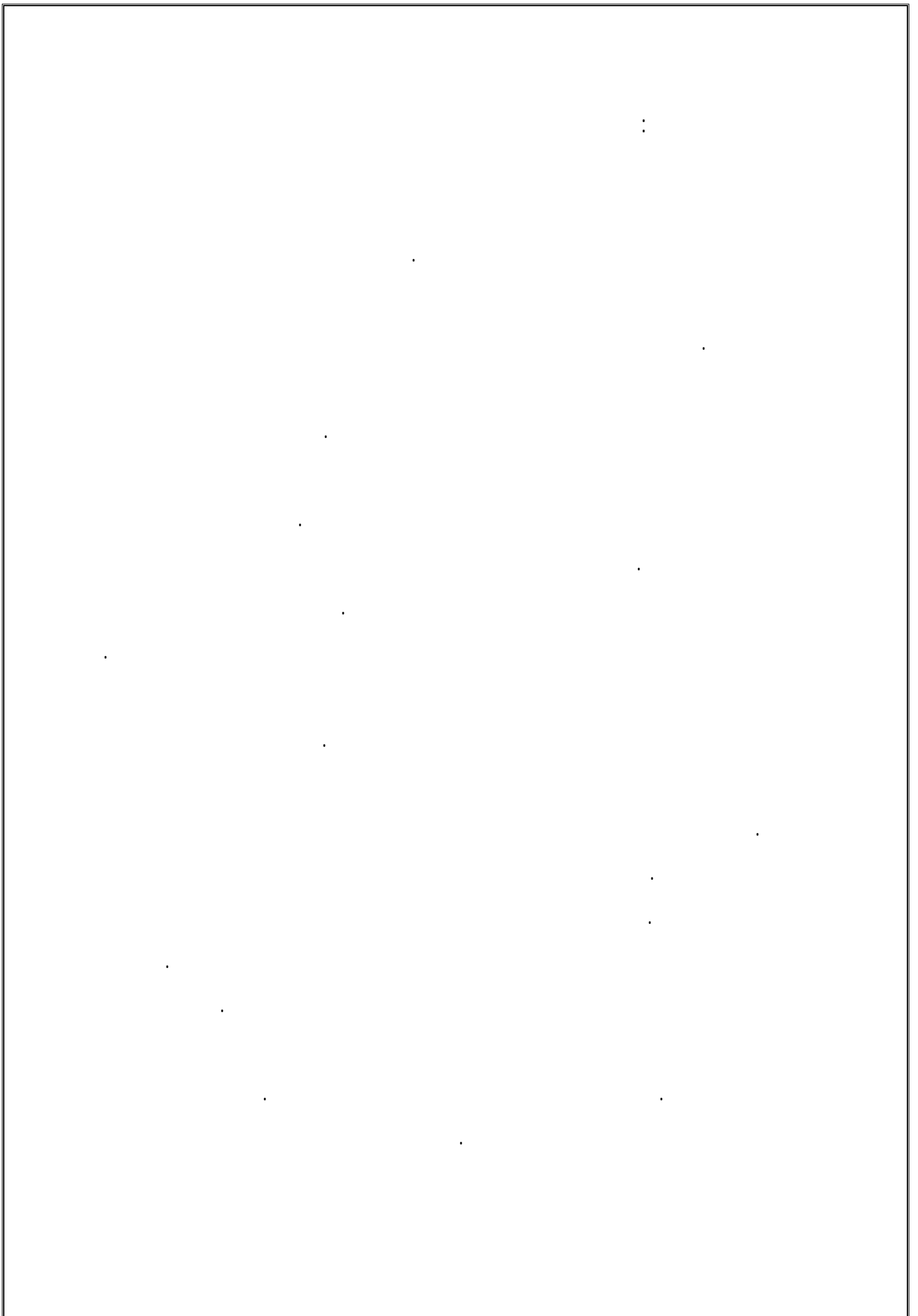


C_2

C_4

C_3

Server



Network Card

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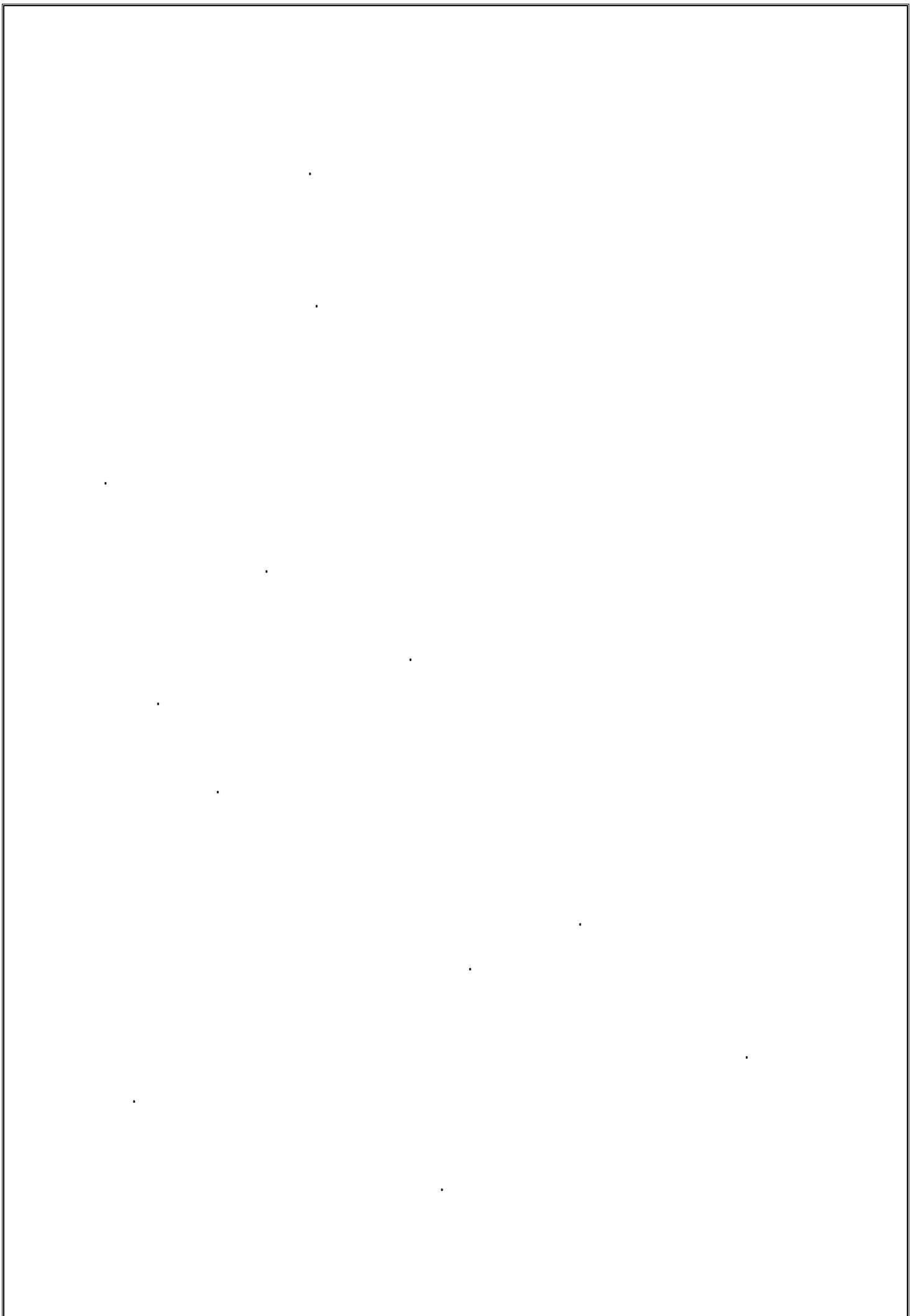
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TCP / IP

UDP

:TCP/IP

Control Protocol

TCP

IP .

Transimtion

Internet Protocol

IP

IP

IP

IP

IP

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IP

192.168.100.25

IP

TCP

IP Addressing IP

IP

192.168.100.12

192.168.100.23

192.168.100

192.168.100.12

192.168.101.12

. IP

TCP

. Ping

Ping

Ping

Ping

Ping

Ping .

IP

Ping 192.168.100.1

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>> Ping 192.168.100.1

Ping .

TCP

TCP

TCP

Packet

TCP

IP

IP

TCP

TCP

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SMS

Delivery

TCP

TCP

UDP

:UDP

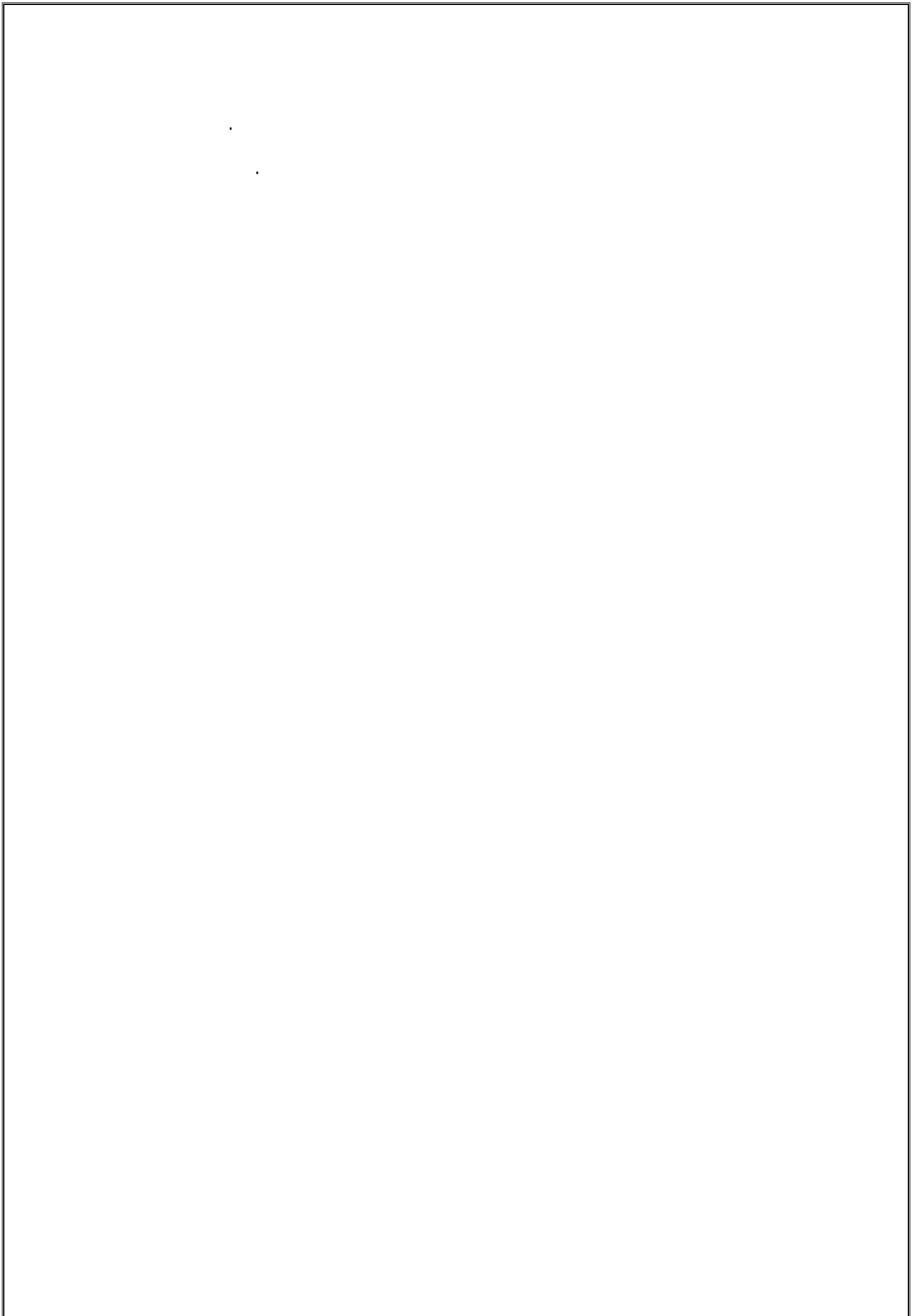
User Datagram Protocol

UDP

TCP

TCP

Server



: (Servers)

TCP

TCP

IP

:

192.168.10

x

192.168.10.*x*

IP

x

IP

Done

Done

Switch

HUB

Switch

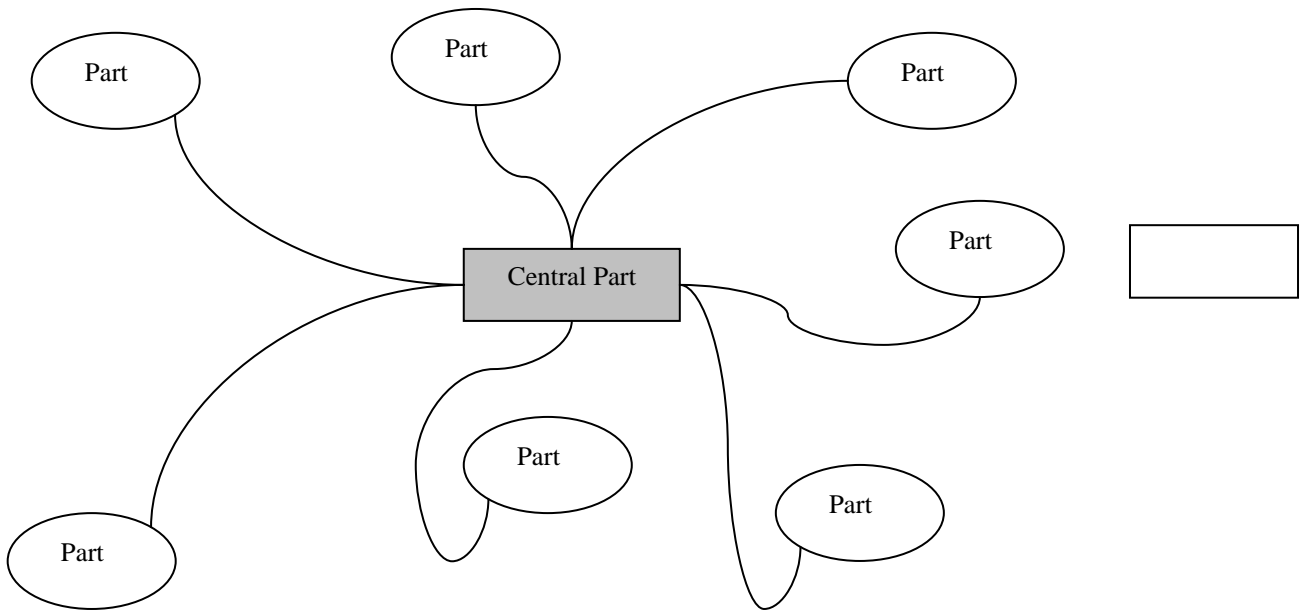
192.168.10.5 . *Switch*
Switch . *IP*

TCP

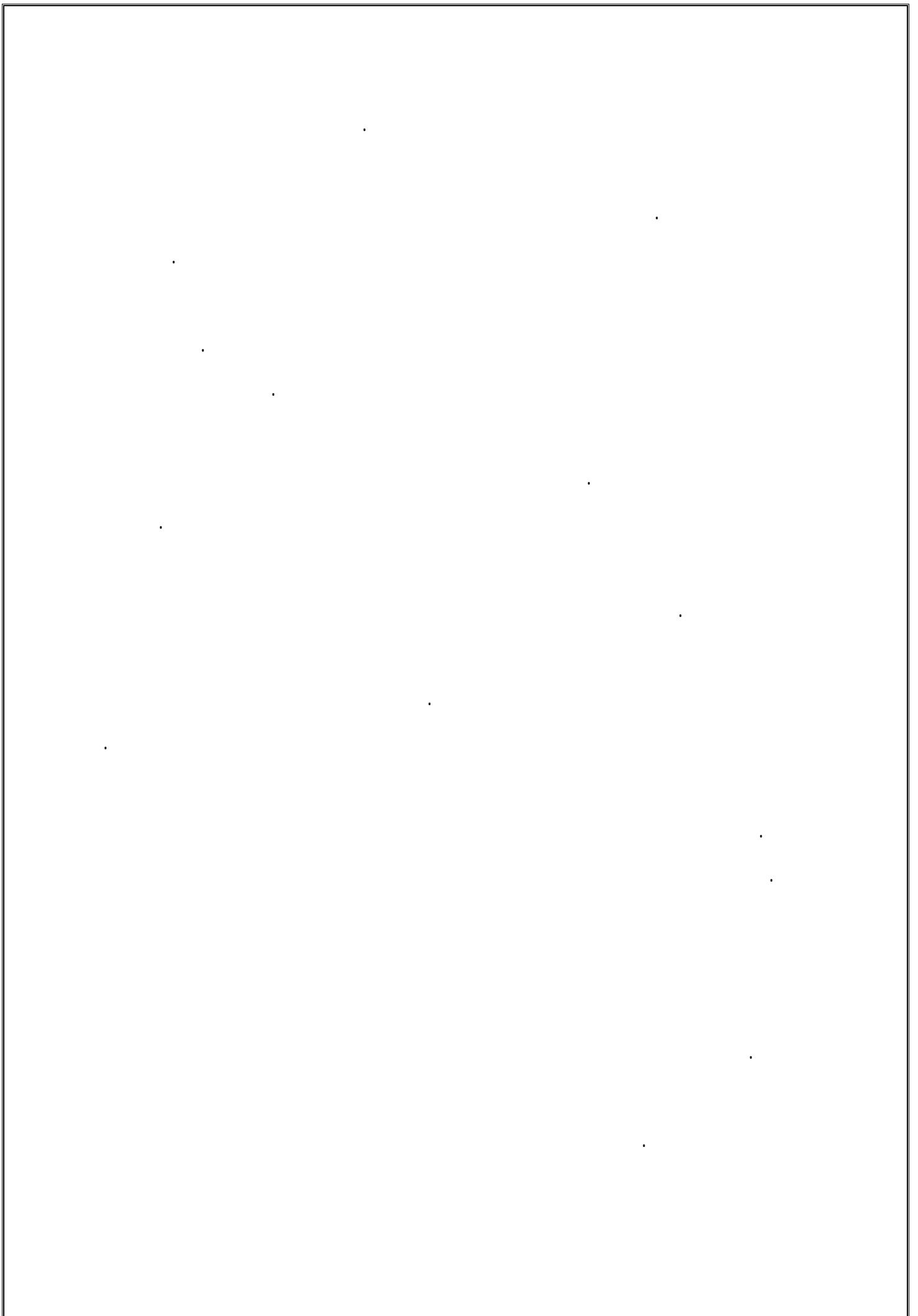
Switch
192.168.10.5
192.168.10.1

TCP

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:



TCP

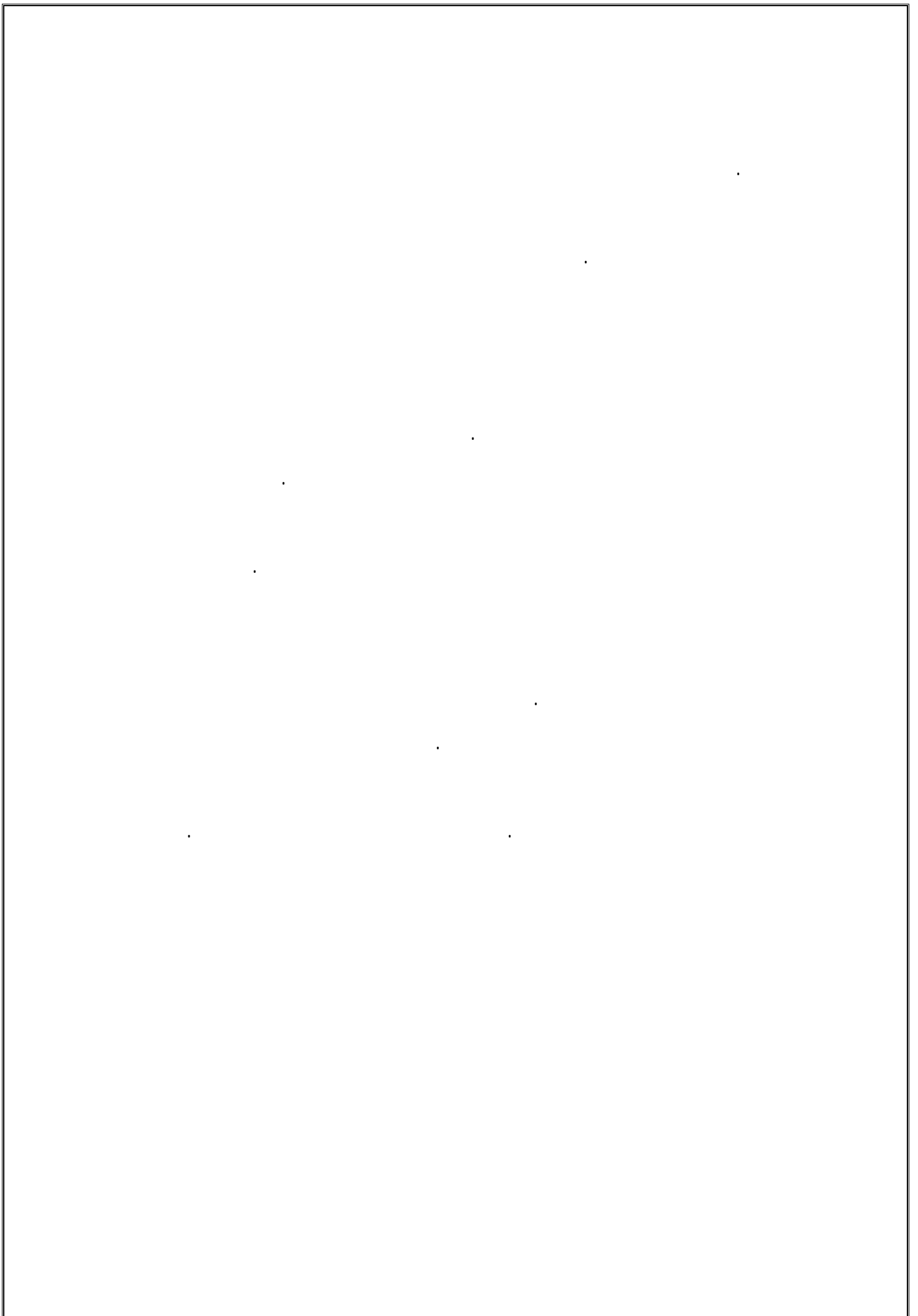


Server

Switch

HUB

Microsoft



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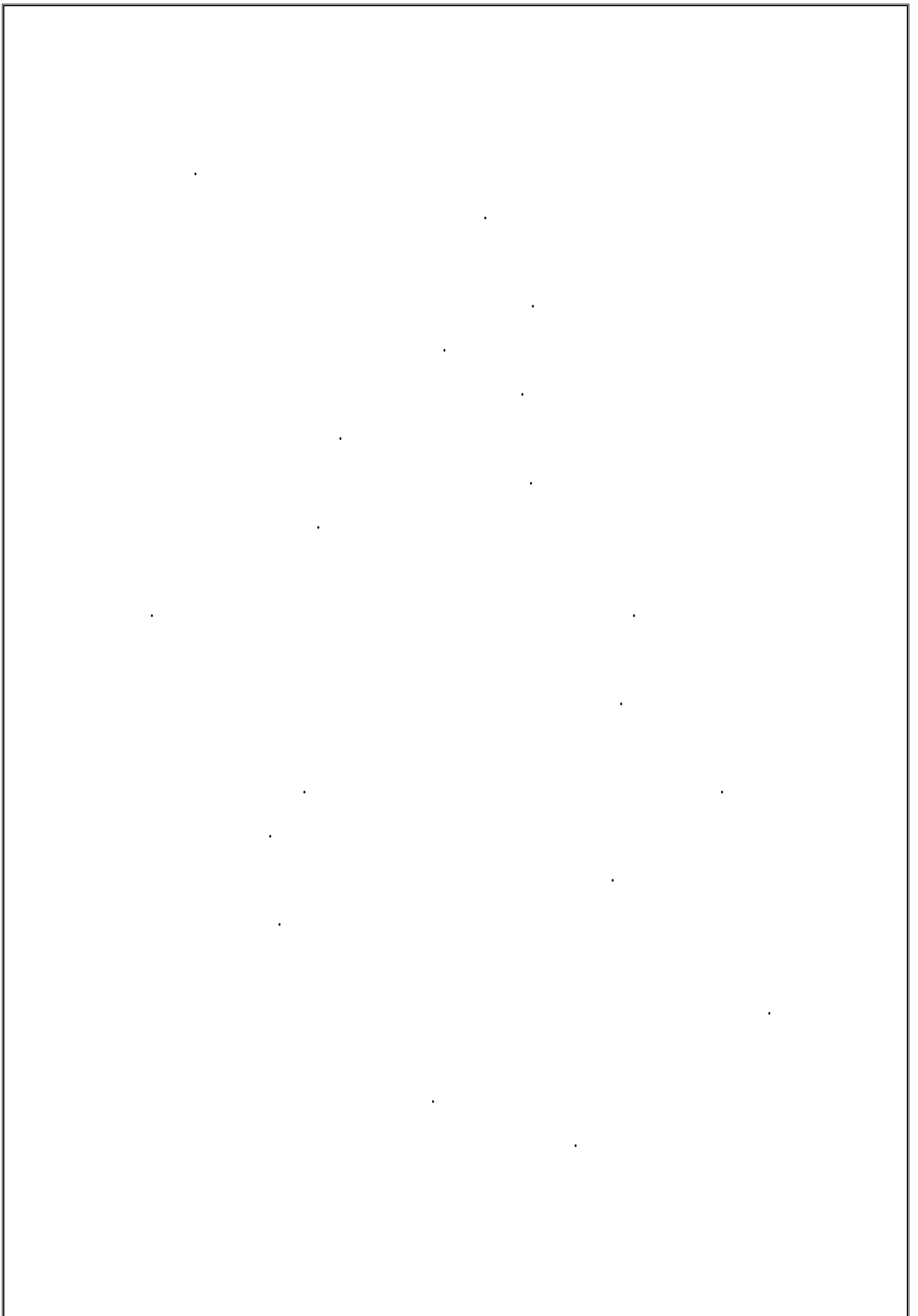
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RAM

RAM

RAM

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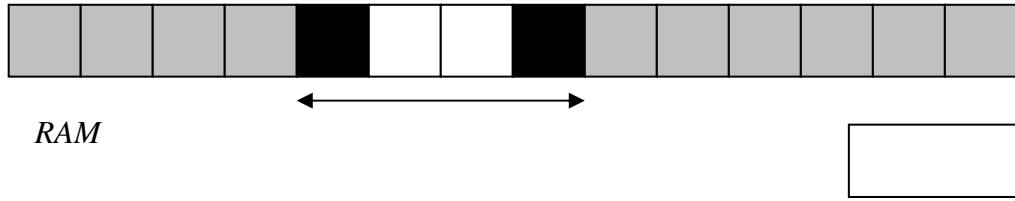
RAM

RAM

RAM

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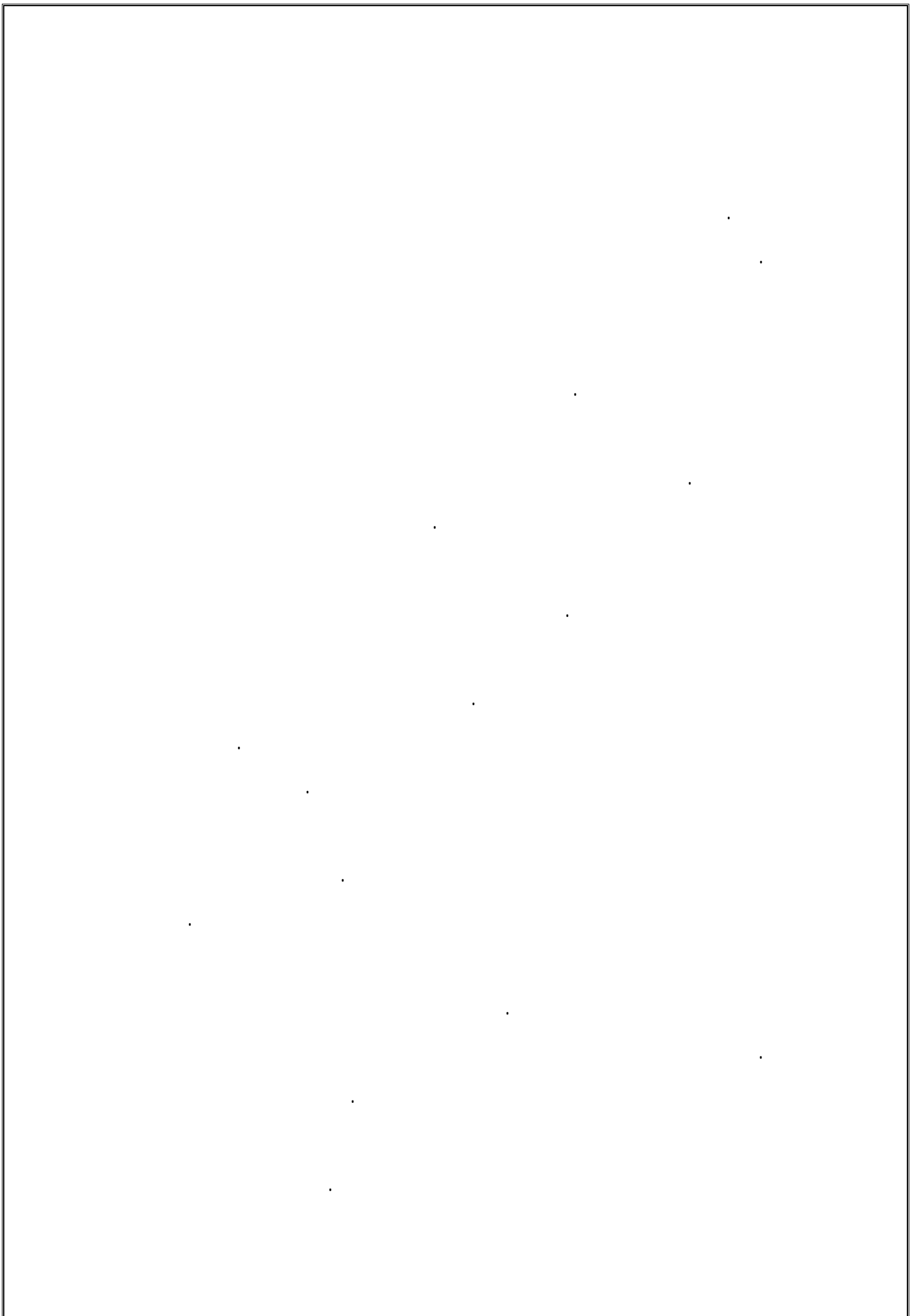
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"Add"

Sin

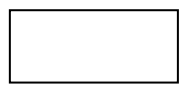


RAM .
RAM .
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RAM .



RAM

x



RAM

RAM

x

x

x

x

x

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100001,110011,111010

Add

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asm

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Re gister

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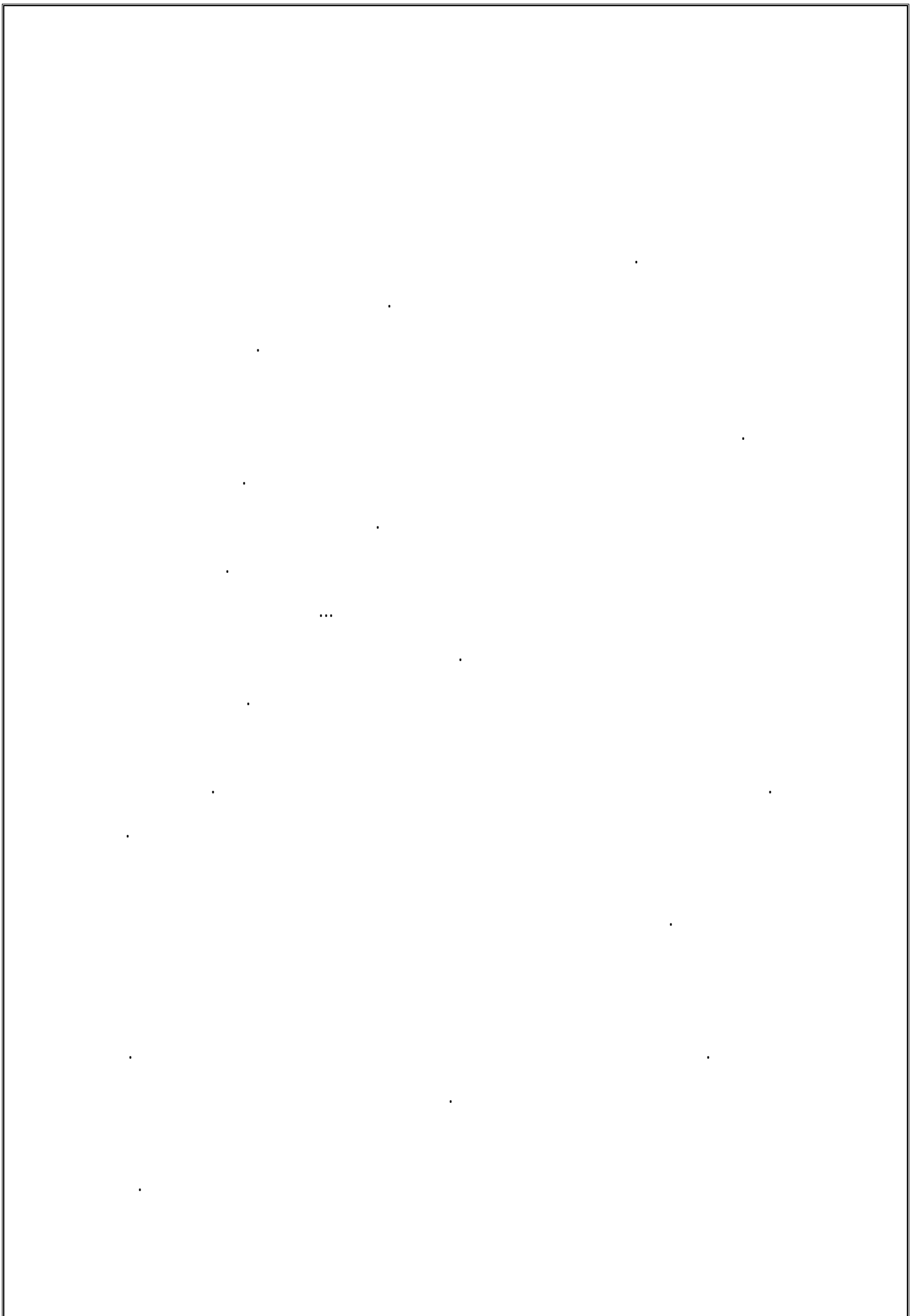
Java C++ C Fortran Pascal

C++

C

a

Compiler



Multi Threading

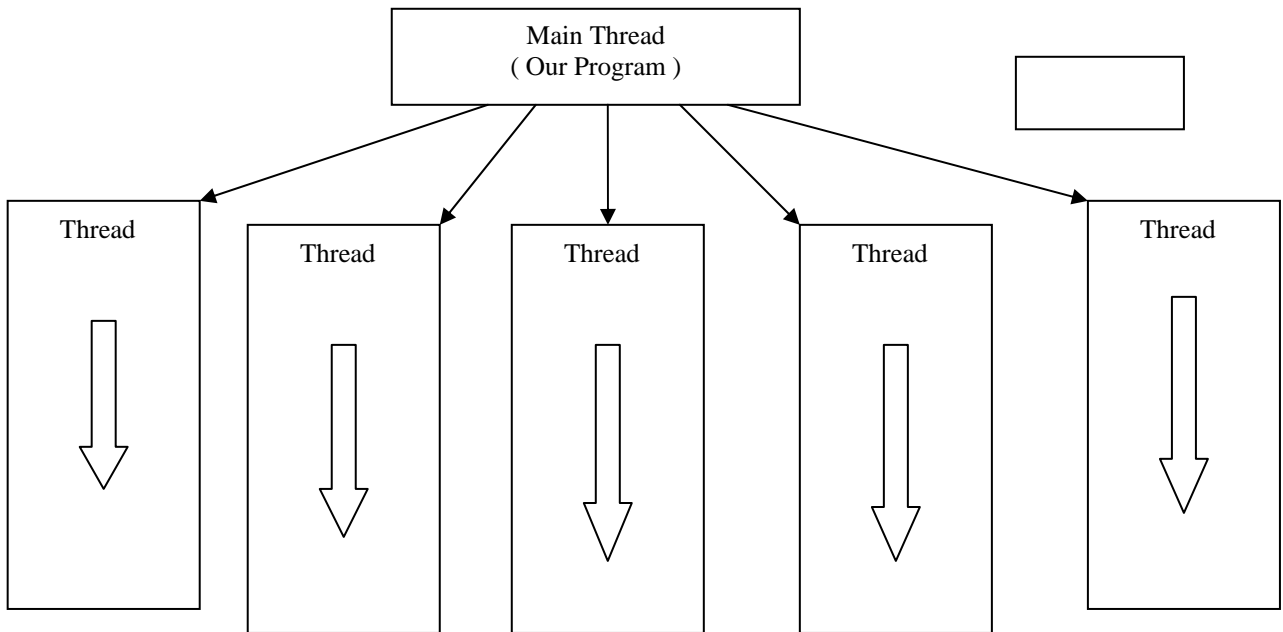
: Multi Threading (

Thread

Multi Threading

Multi Threading

Multi Threading



Multi Threading

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Secuti

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Administrator

Policy

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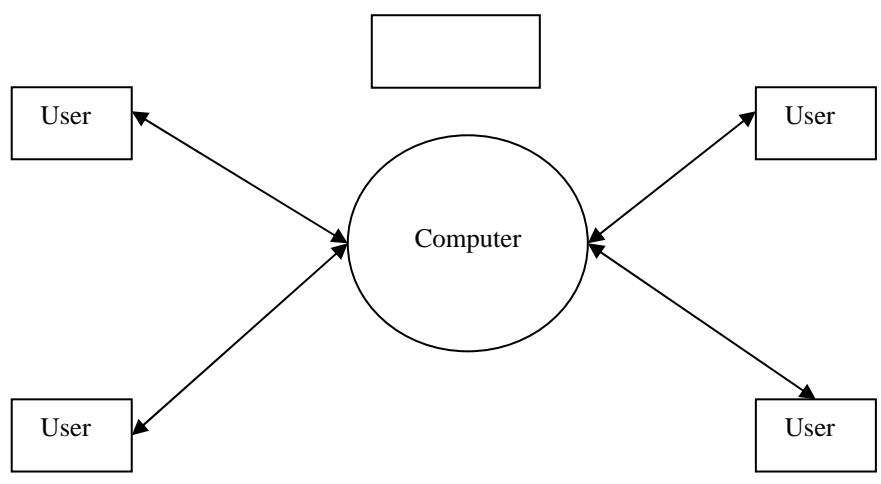
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: (

Multi User

Multi Threading



Login

Windows XP

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. DOS ()

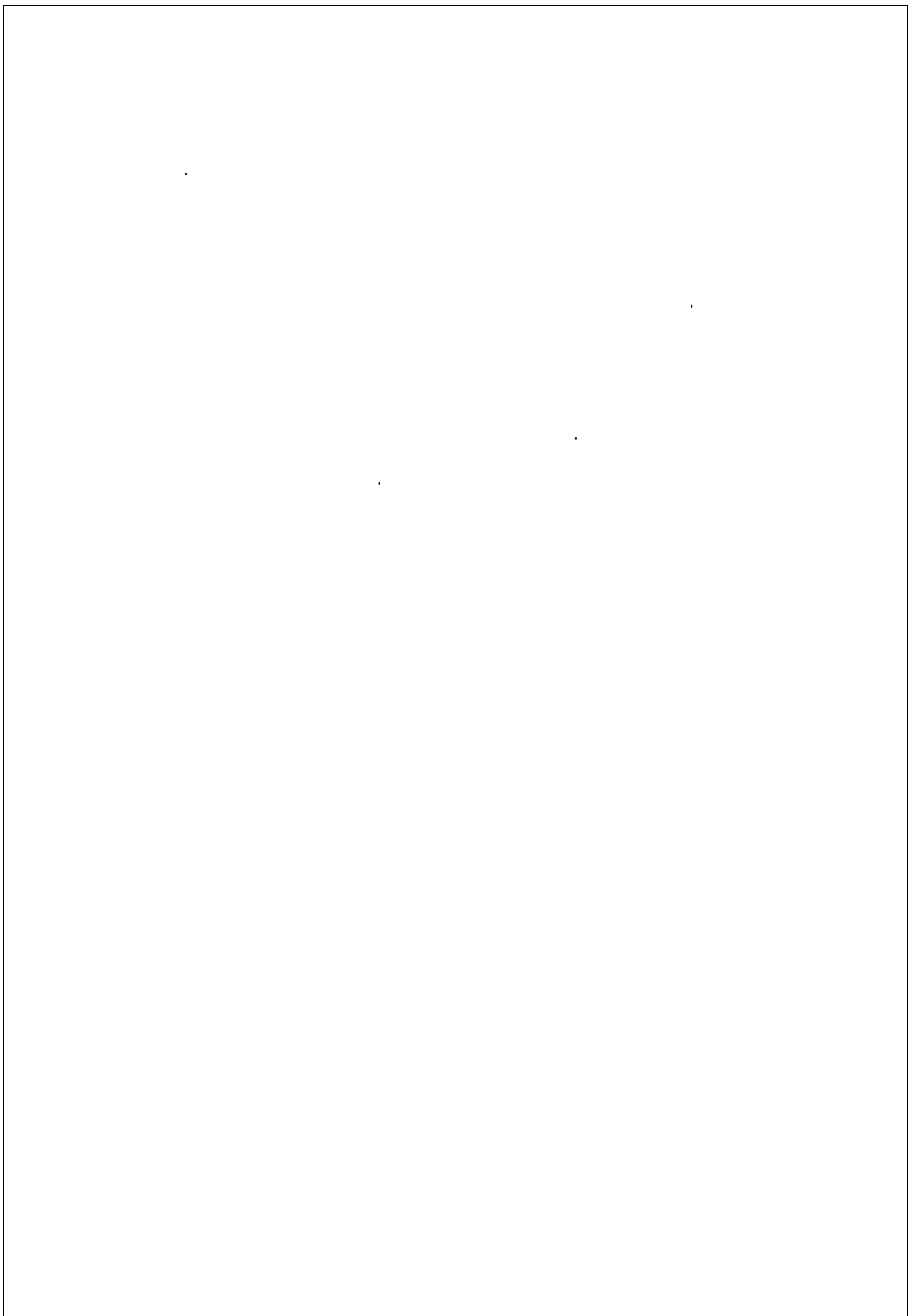
. *Microsoft*

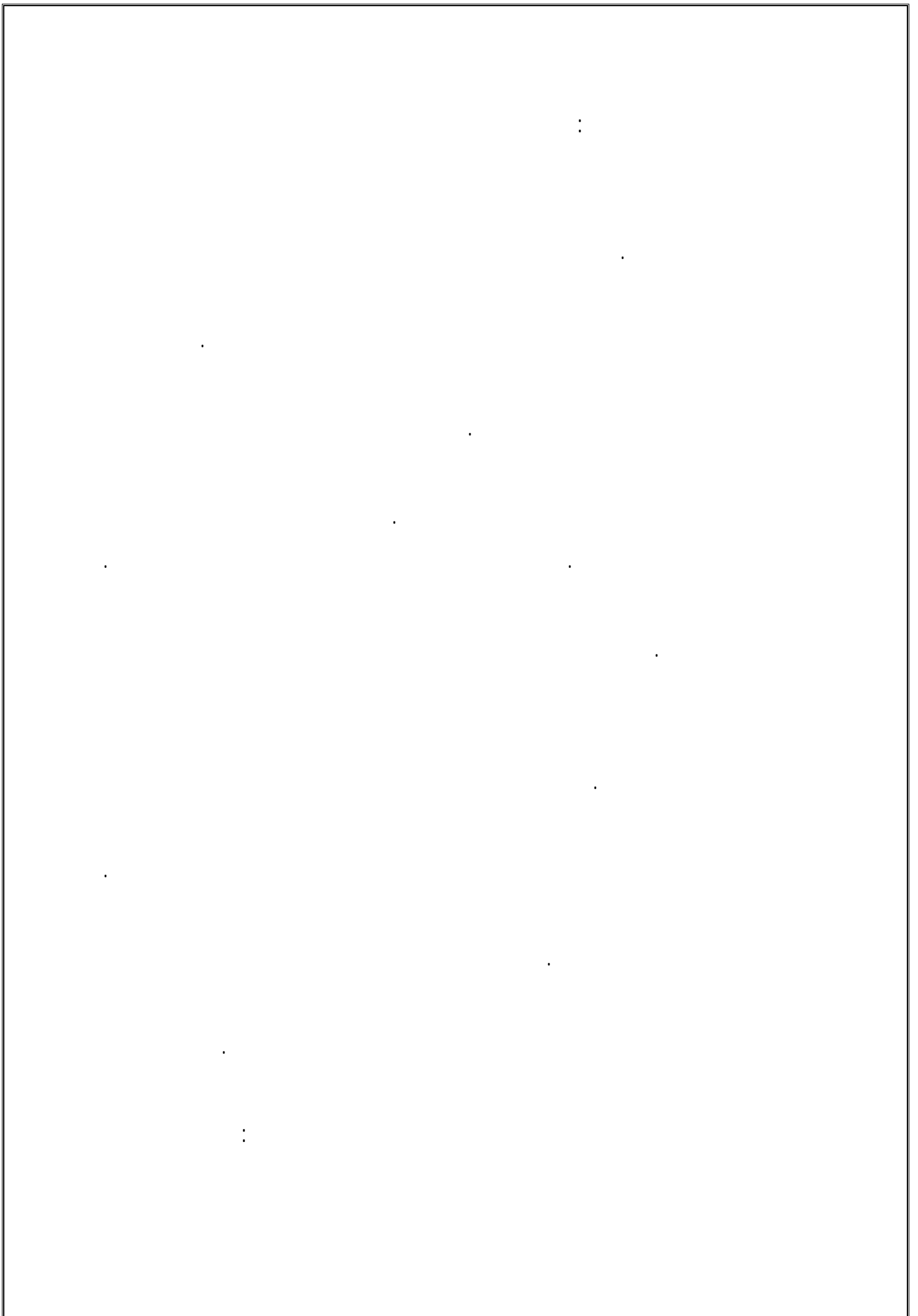
DOS

... *Internet Explorer Office*

Bug

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...

RedHat

GUI

Client / Server

X

X

X

X

Windows 3.1

X

X

! ...

Gozilla

IE

Open Office

Microdoft Office

Open Source

Open Source

RedHat

Open Source

Open Source

Open Source

(Open Source Programing) :

Open Source

Open Source

Open Source

Open Source .

Open Source

(*CopyRigth*)

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Open Source

Open Source

Lisence

GPL

Open Source

Open Source

GPL

Open Source

Open Source

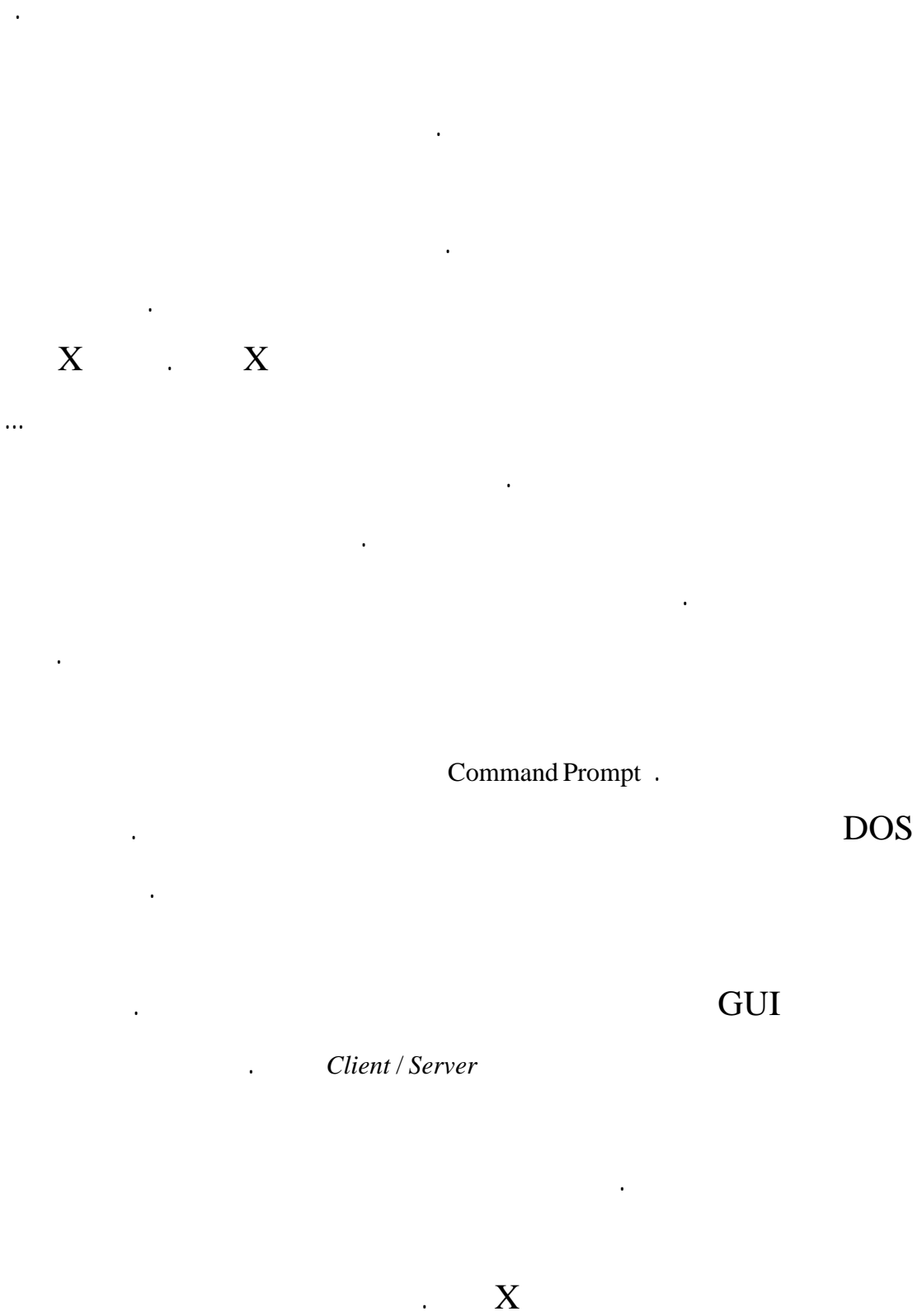
GPL

Open Source

Windows

Interface

:Interface



Visual Studio .net

directX

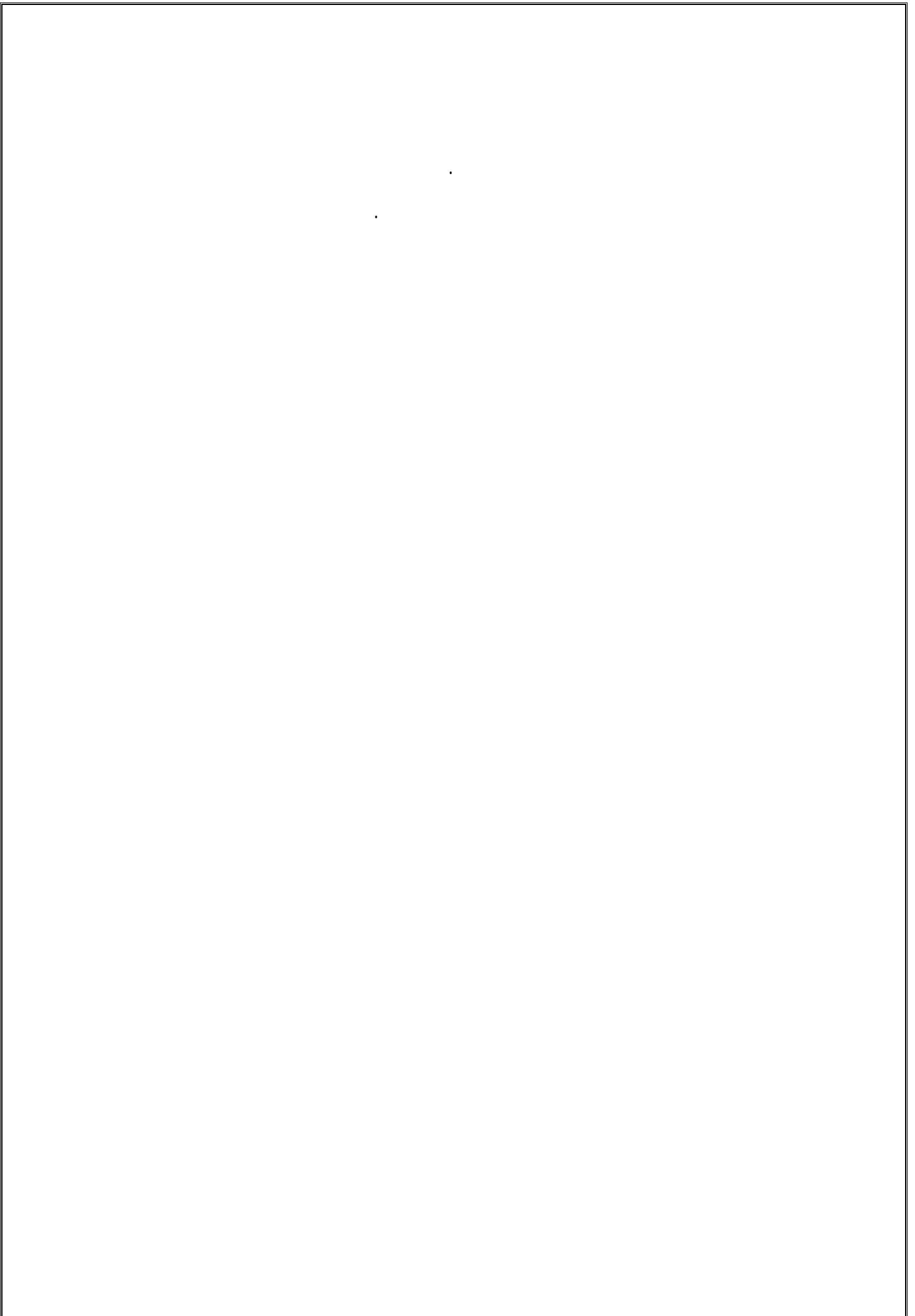
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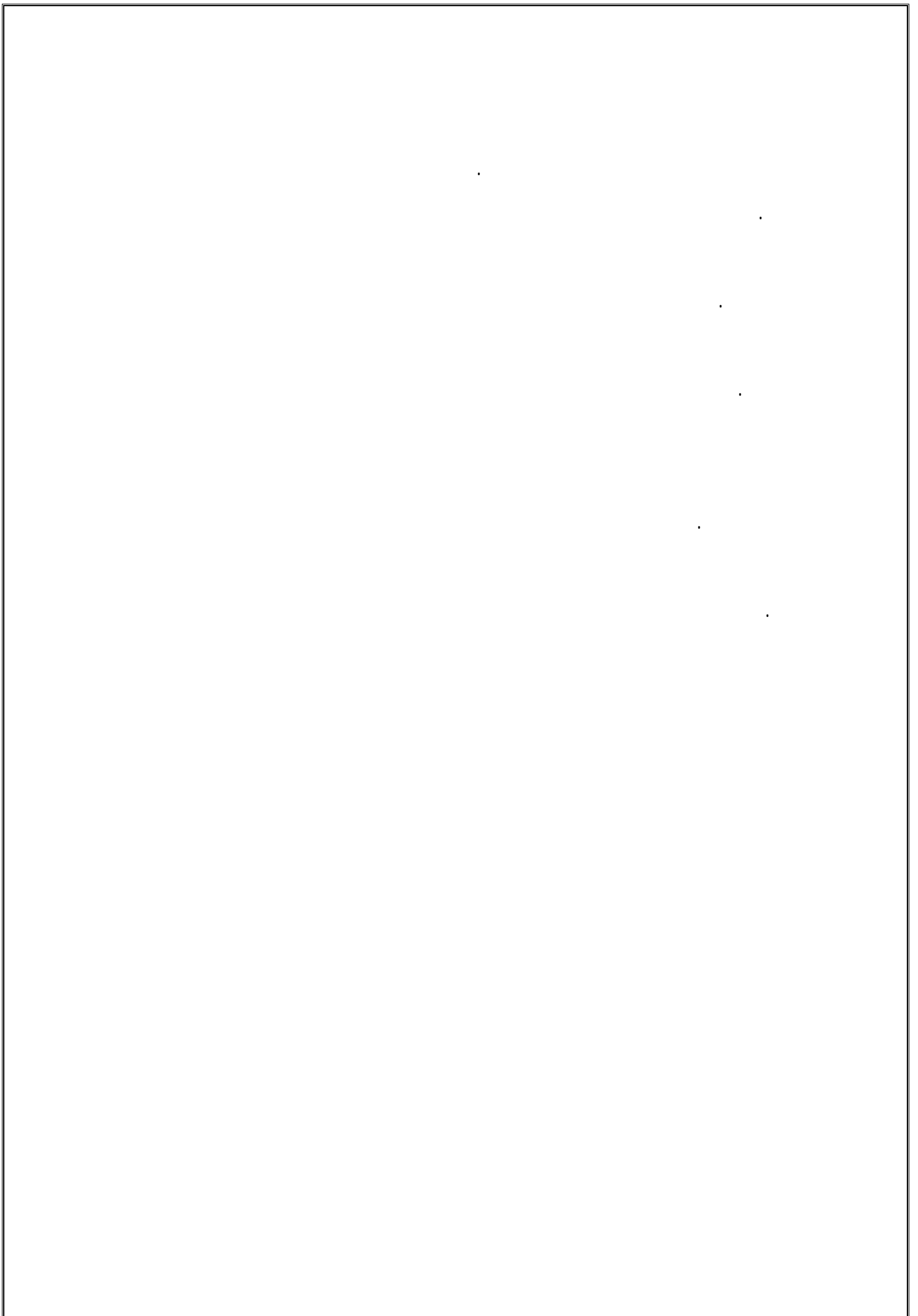
OpenGL

. *directX*

directX



(driver)



: (*File Systems*)

NTFS FAT32 FAT

FATX

NTFS

2000

EXT2

SWAP EXT3

"/

Web Server

C,D,E,...

mounting

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"/"

EXT3 EXT2

"/"

SWAP

SWAP EXT3 EXT2

My Computer

NTFS FATX

Boot Loader

Load

Loader

EXT

Boot

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exe

exe

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(*DOS*)

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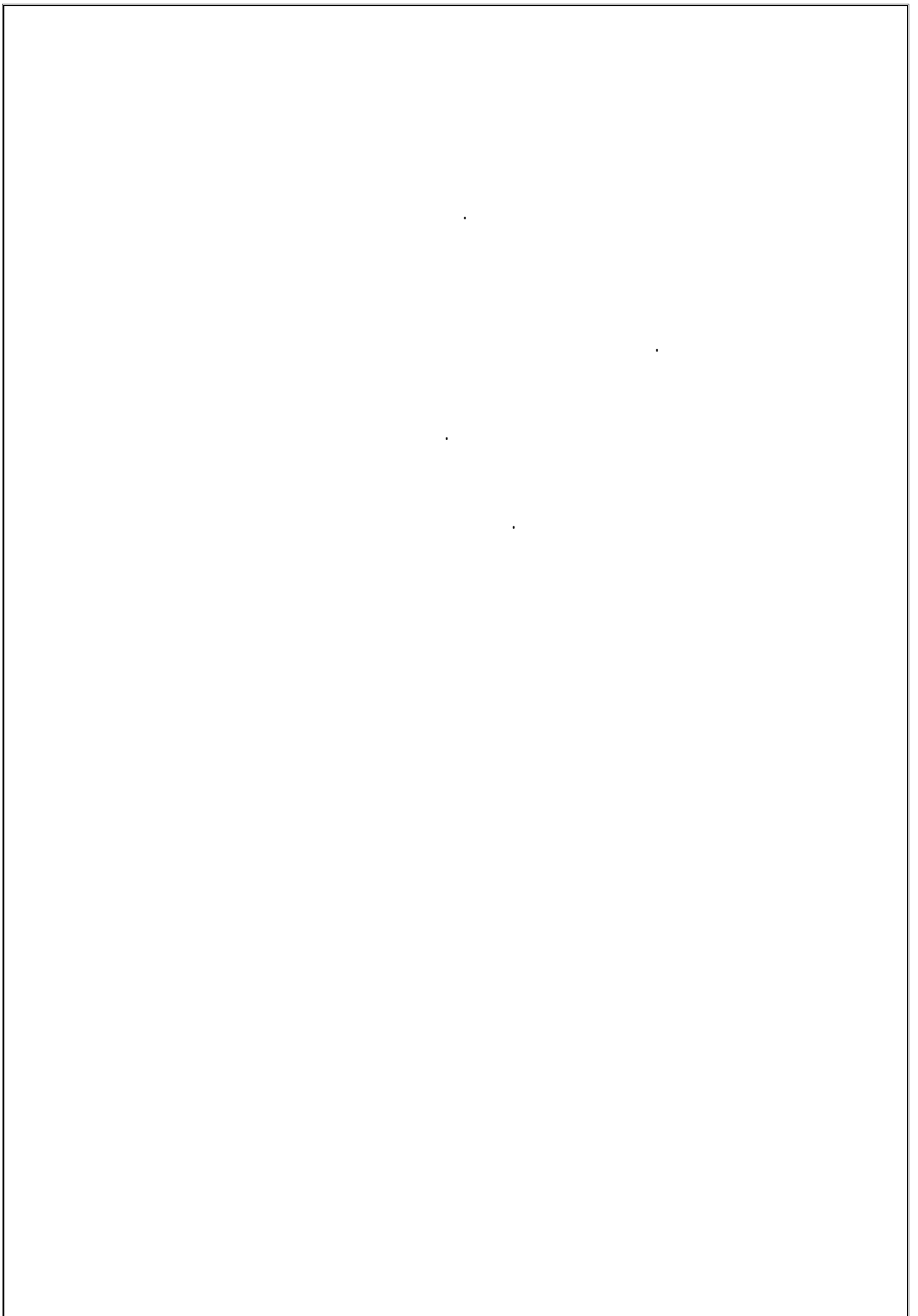
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(!!!

Setup

exe

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Copyright

Windows

... *Free - BSD*

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RedHat

Suse

Obuntu

SlackWare

Suse

RedHat & SlackWare

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Page File

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Swap

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Swap

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Swap FS

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MultiTasking

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Unix

Dos

Unix

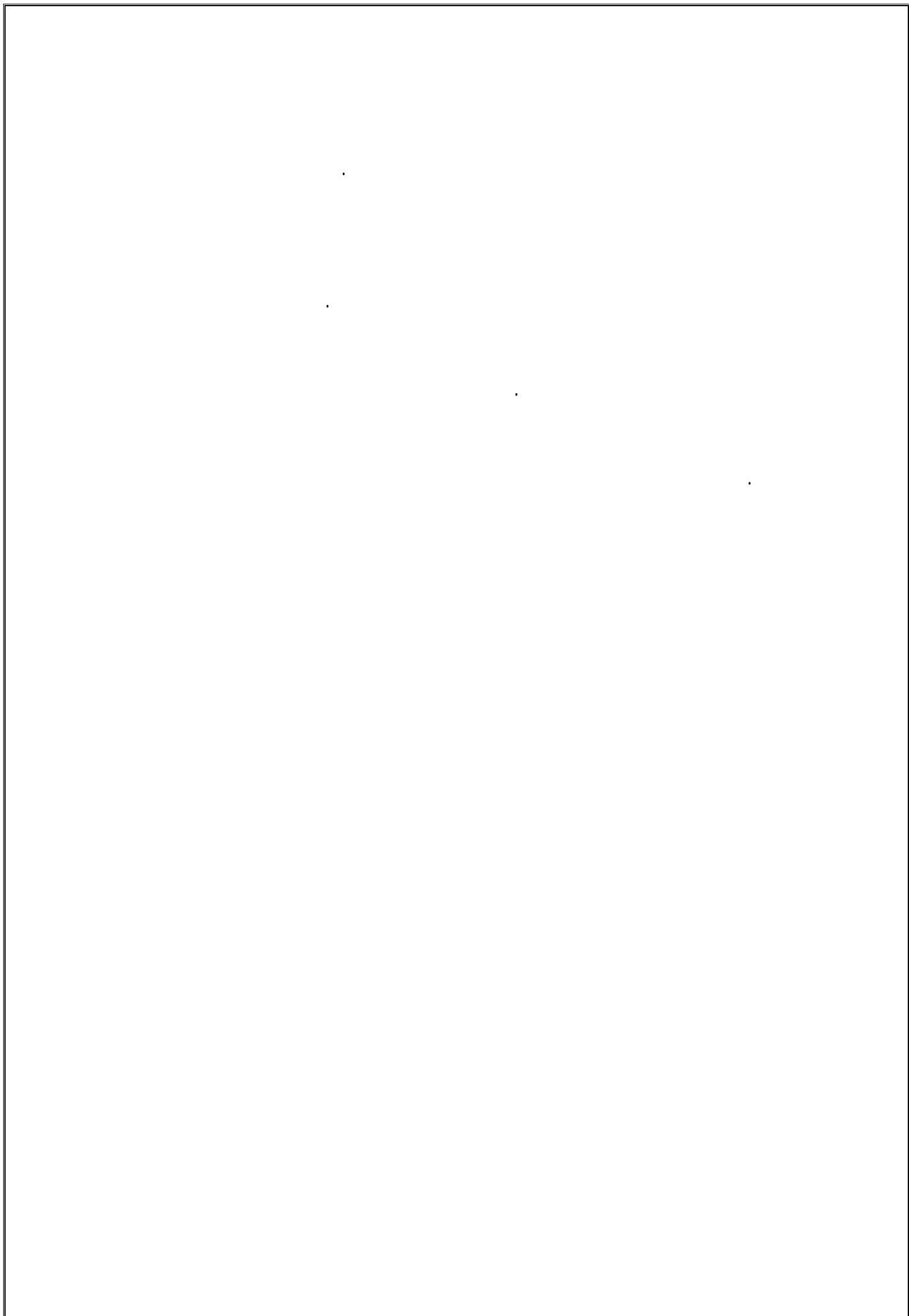
:

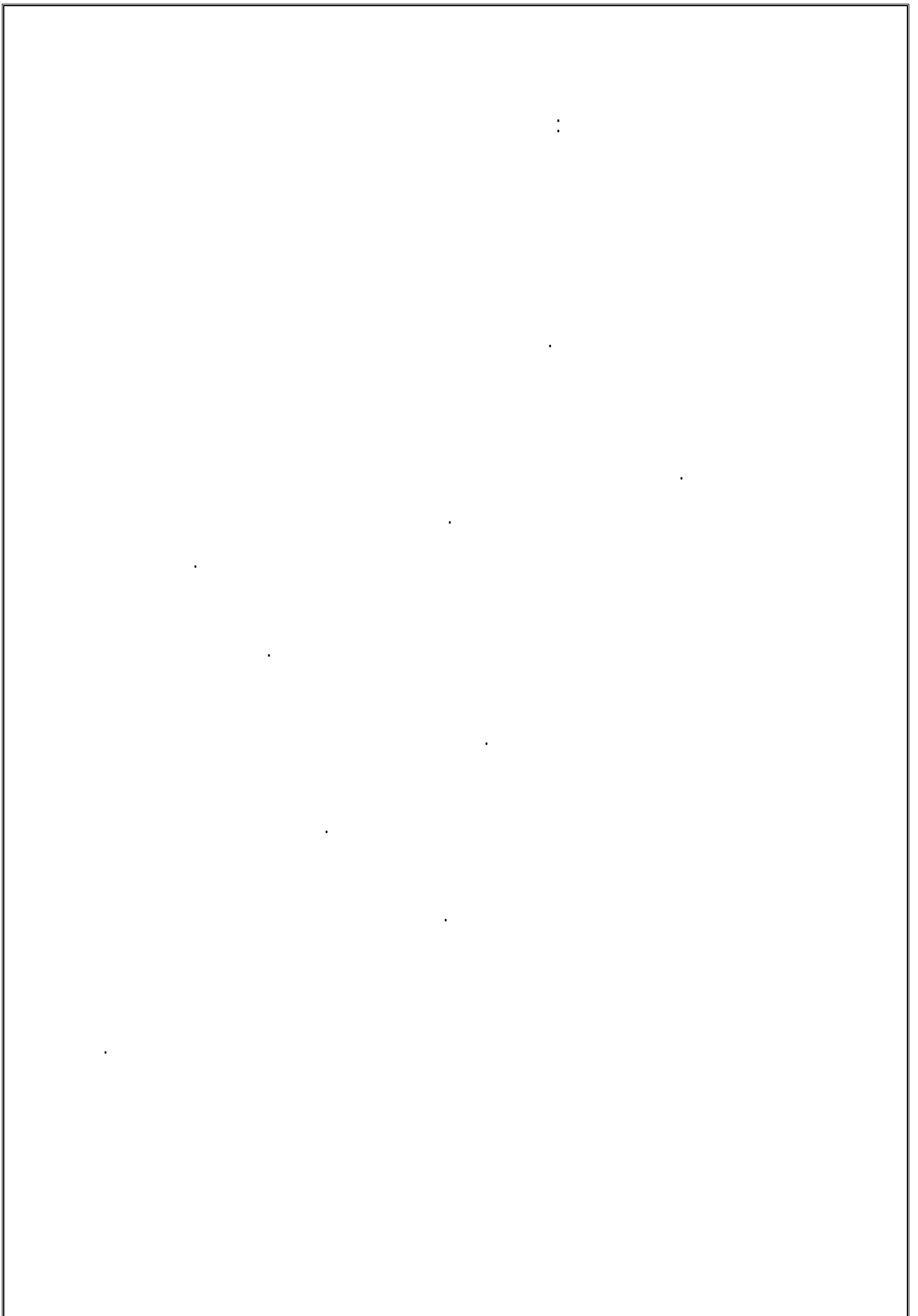
Unix

CD

Wizard

UDP TCP/IP



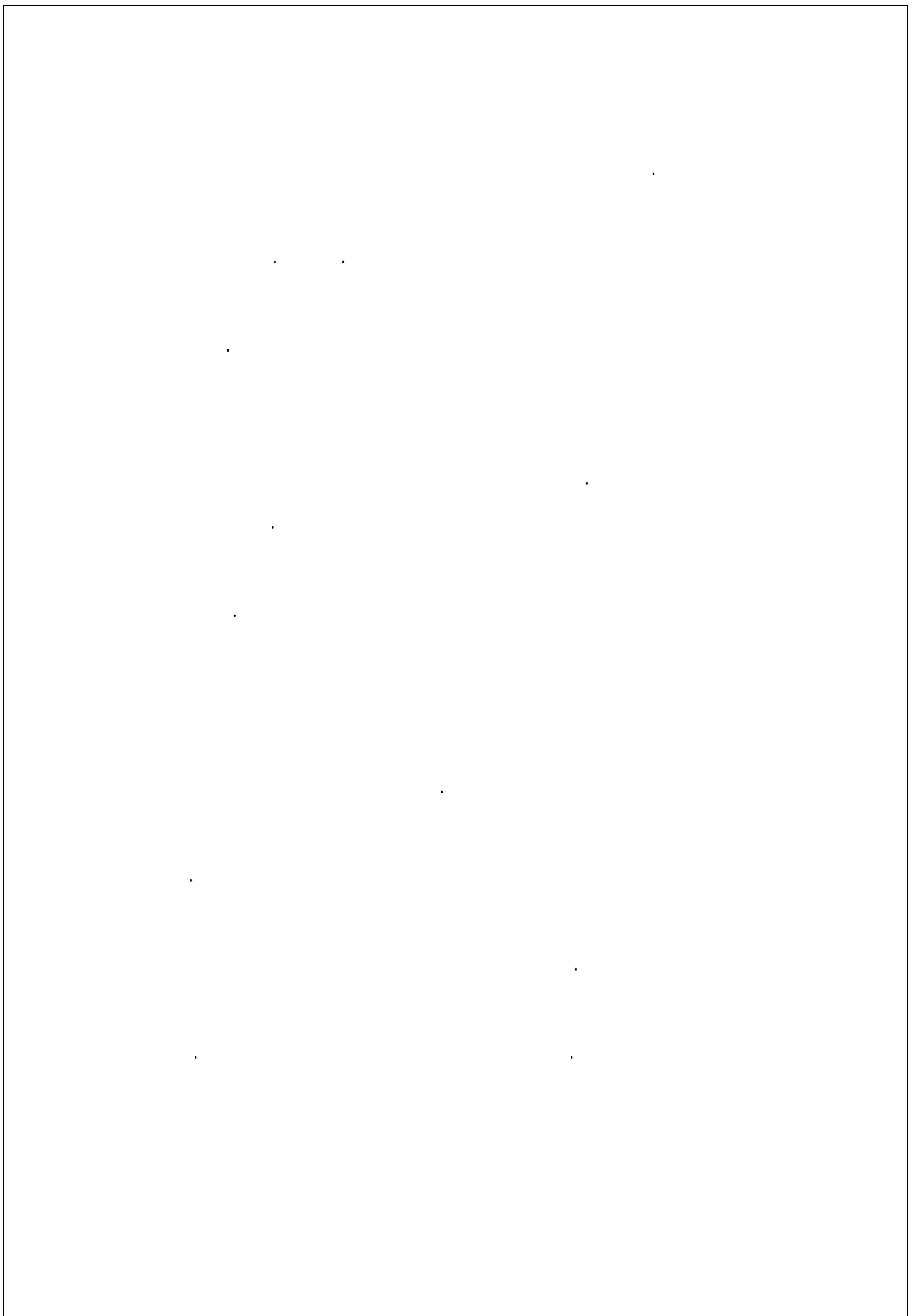


(III ...)

Java C++ C

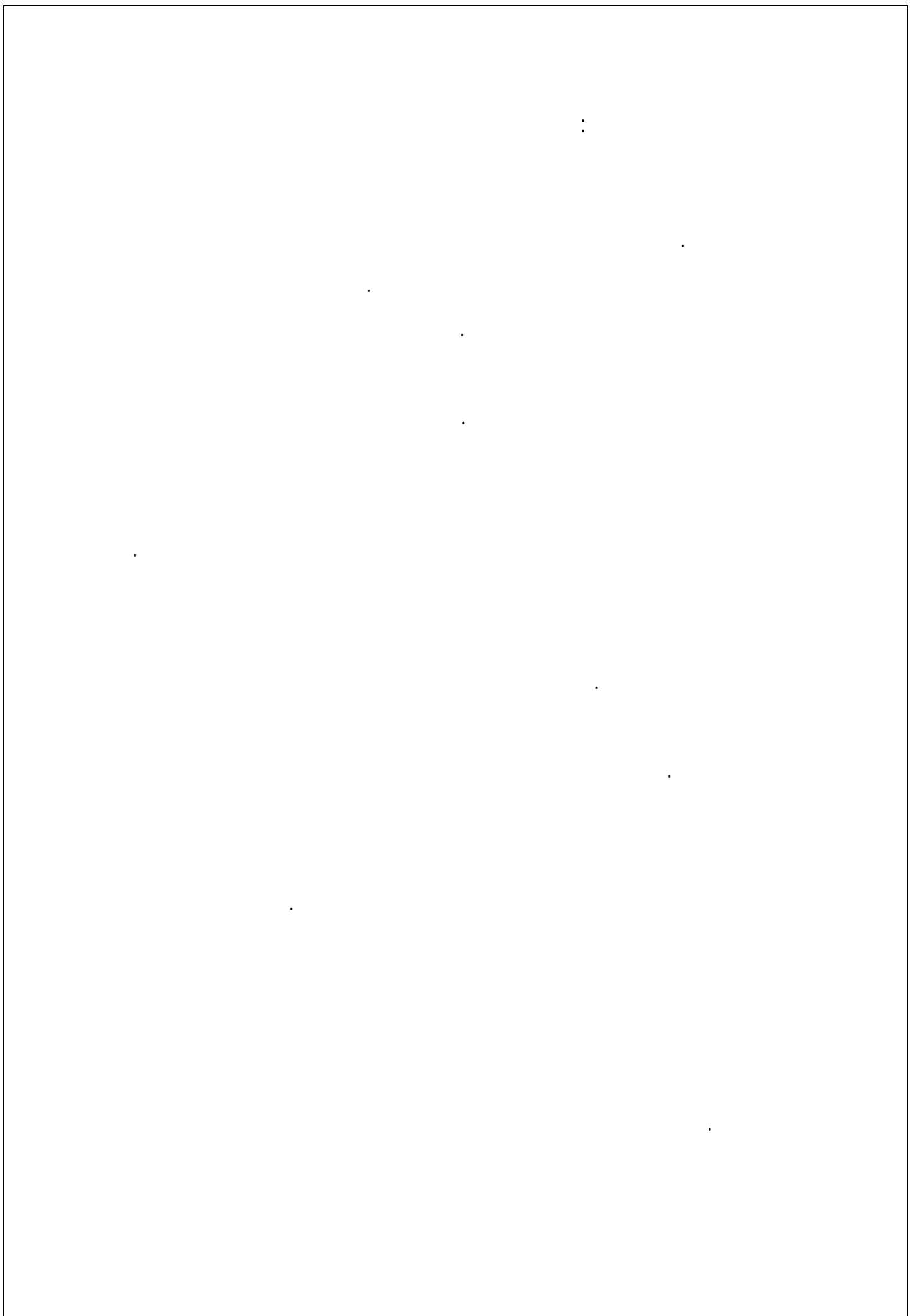
)

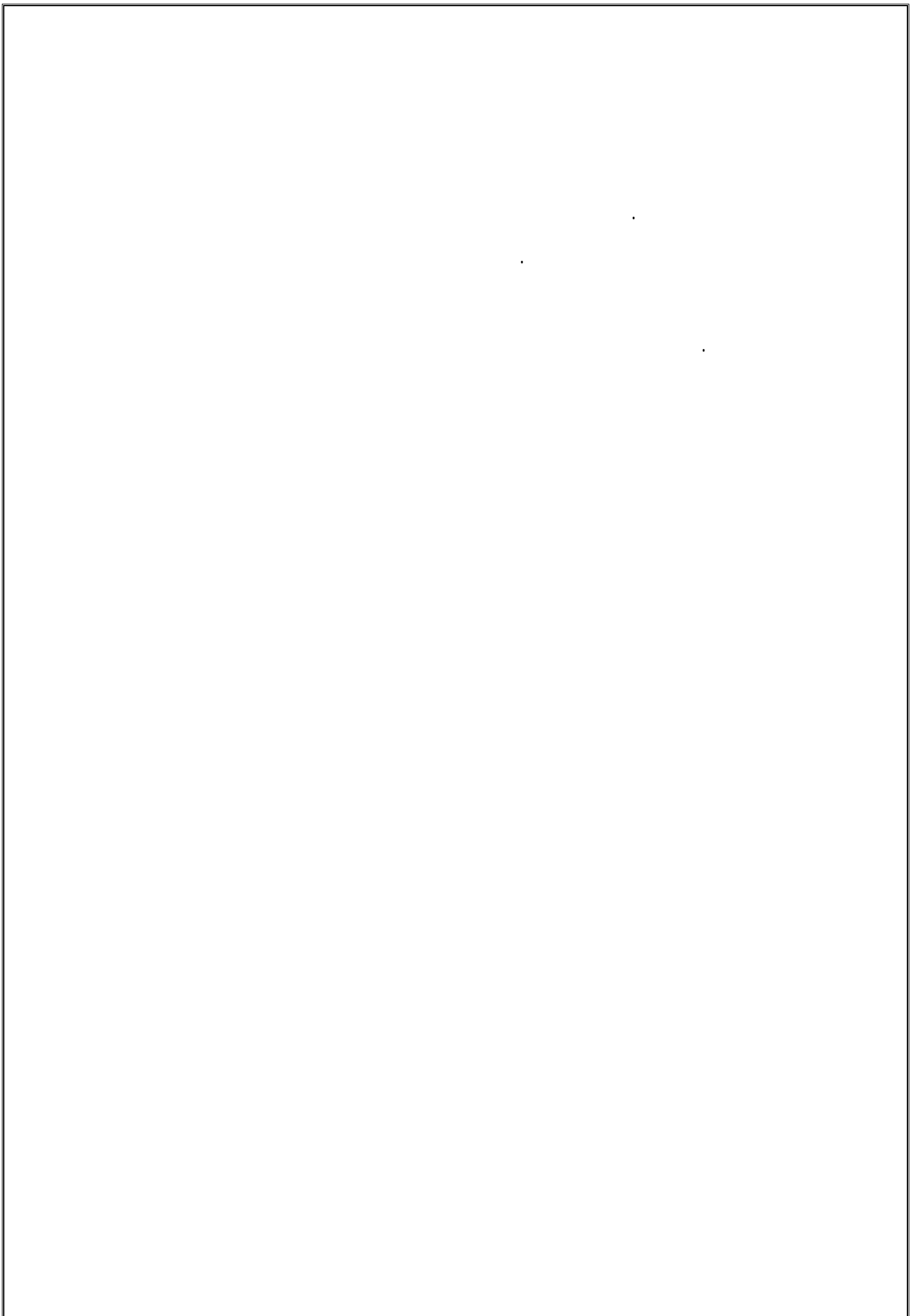
(Dynamic Memory Allocation



: Multi Threading

.net





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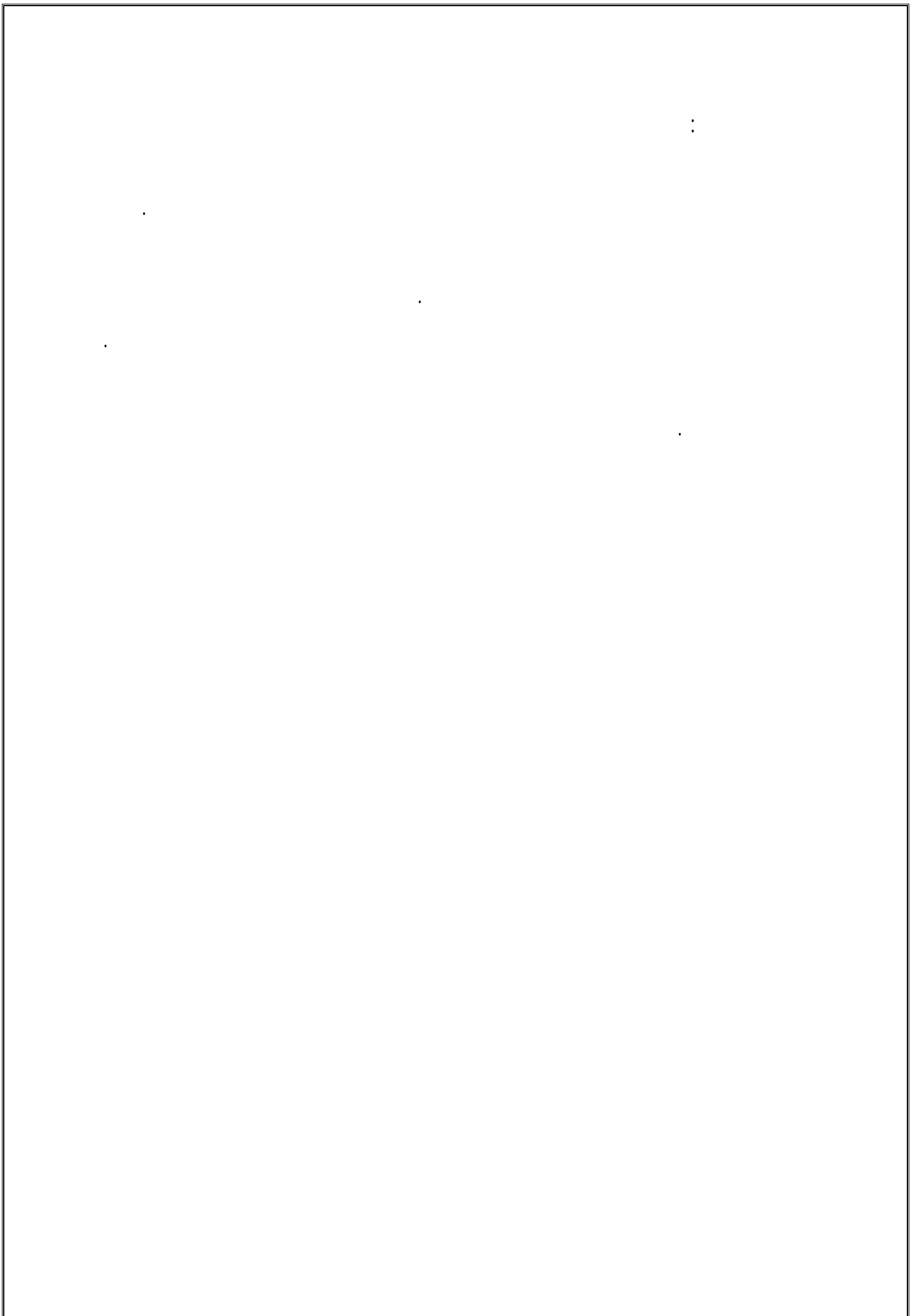
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