

Операционные системы

Открытый урок по дисциплине «ТО и ремонт компьютерной и офисной техники»

Операционная система

- комплекс управляющих и обрабатывающих программ, который, с одной стороны, выступает как интерфейс между аппаратурой компьютера и пользователем.
- другое предназначение – для более эффективного пользования ресурсов вычислительной системы и организации надежных вычислений

Функции ОС

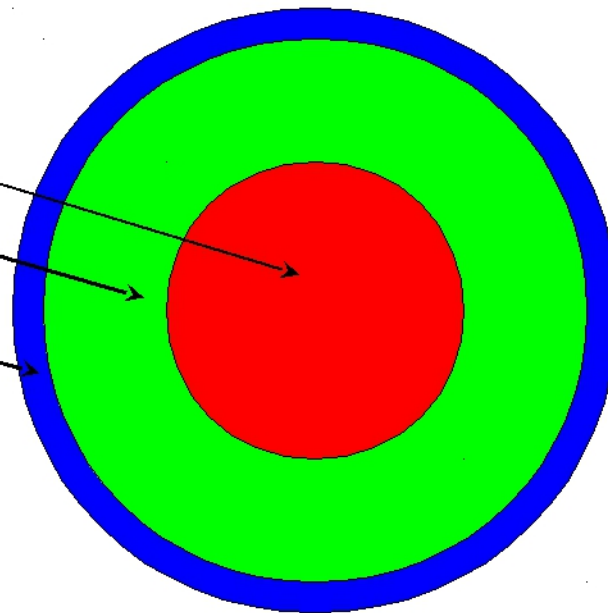
Основные функции операционных систем



Компоненты ОС

Состав ОС

- Ядро
- Драйверы
- Интерфейс

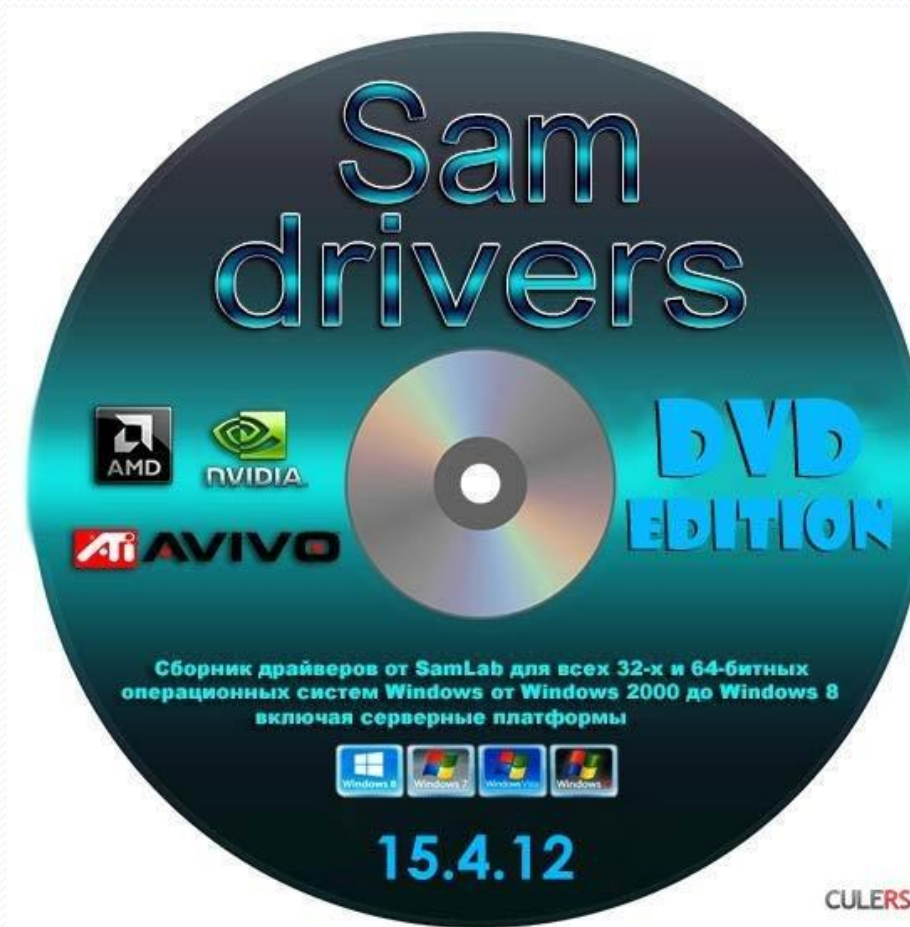


Ядро операционной системы

Ядро операционной системы



Драйвер ОС



CULERS

Интерфейс ОС



ПК без операционных систем



MS-DOS

```
Starting MS-DOS...
```

```
HIMEM is testing extended memory...done.
```

```
C:\>C:\DOS\SMARTDRV.EXE /X
```

```
MODE prepare code page function completed
```

```
C:\>dir
```

```
Volume in drive C is MS-DOS_6
```

```
Volume Serial Number is 3996-B4A1
```

```
Directory of C:\
```

| | | | | |
|----------|-----------|--------|------------------------|-------|
| DOS | <DIR> | | 22/12/08 | 22:37 |
| COMMAND | COM | 54 869 | 31/05/93 | 6:22 |
| WINA20 | 386 | 9 349 | 31/05/93 | 6:22 |
| CONFIG | SYS | 191 | 22/12/08 | 22:37 |
| AUTOEXEC | BAT | 168 | 22/12/08 | 22:37 |
| | 5 file(s) | | 64 577 bytes | |
| | | | 261 255 168 bytes free | |

```
C:\>
```

Norton Commander

| C:\NC | | | | | C:\QUAKE | | | | |
|----------|-----------|--------|----------|-------|----------|-----------|--------|----------|-------|
| Name | | Size | Date | Time | Name | | Size | Date | Time |
| .. | ▶UP--DIR◀ | | 22/10/06 | 19:56 | .. | ▶UP--DIR◀ | | 24/10/06 | 1:00 |
| 123view | exe | 52464 | 23/10/89 | 15:00 | ID1 | ▶SUB-DIR◀ | | 24/10/06 | 1:00 |
| chkmail | bat | 342 | 23/10/89 | 15:00 | comexp | txt | 25462 | 12/07/96 | 17:31 |
| dbview | exe | 61026 | 23/10/89 | 15:00 | cwsdpmi | exe | 25920 | 12/07/96 | 17:31 |
| inread | me | 1312 | 23/10/89 | 15:00 | genuxd | dll | 17408 | 12/07/96 | 17:31 |
| mci | exe | 103396 | 23/10/89 | 15:00 | help | txt | 4751 | 12/07/96 | 17:31 |
| mci | hlp | 27050 | 23/10/89 | 15:00 | licinfo | txt | 4031 | 12/07/96 | 17:31 |
| mcidrivr | exe | 71272 | 23/10/89 | 15:00 | manual | txt | 44326 | 12/07/96 | 17:31 |
| nc | exe | 3100 | 23/10/89 | 15:00 | mgenuxd | uxd | 9883 | 12/07/96 | 17:31 |
| nc | hlp | 45727 | 23/10/89 | 15:00 | order | txt | 3869 | 12/07/96 | 17:31 |
| nc | ini | 476 | 25/10/06 | 1:13 | pdipx | com | 26511 | 12/07/96 | 17:31 |
| ncmain | exe | 139274 | 23/10/89 | 15:00 | q95 | bat | 65 | 12/07/96 | 17:31 |
| paraview | exe | 62596 | 23/10/89 | 15:00 | qlaunch | exe | 314800 | 12/07/96 | 17:31 |
| pcxview | exe | 46094 | 23/10/89 | 15:00 | quake | exe | 396288 | 12/07/96 | 17:39 |
| rbview | exe | 67966 | 23/10/89 | 15:00 | quakeudp | dll | 32256 | 12/07/96 | 17:31 |
| read | me | 974 | 11/11/91 | 10:20 | readme | txt | 18853 | 12/07/96 | 17:31 |
| refview | exe | 63492 | 23/10/89 | 15:00 | rlicnse | txt | 10862 | 12/07/96 | 17:31 |
| ser-test | exe | 4480 | 23/10/89 | 15:00 | techinfo | txt | 76067 | 12/07/96 | 17:31 |
| .. | ▶UP--DIR◀ | | 22/10/06 | 19:56 | .. | ▶UP--DIR◀ | | 24/10/06 | 1:00 |

C:\NC>
1Help 2Menu 3View 4Edit 5Copy 6RenMov 7Mkdir 8Delete 9PullDn 10Quit

Windows 95



Franz-PC



Cestino



Internet
Explorer



Windows
Media
Player



Desktop



Start

UNIX

Операционная система UNIX

SCN XENIX SYSTEM U

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SysV release 2.3.2 kid 0.58 for i80286 Serial Number: nu1000000

| device | address | vector | dma | comment |
|-----------|-------------|--------|-----|-------------------------------|
| %fpu | | 35 | | type=80287 |
| %floppy | 0x3F2-0x3F7 | 06 | 2 | unit=0 type=9bds15 |
| %floppy | - | - | - | unit=1 type=135ds18 |
| %serial | 0x3F8-0x3FF | 04 | - | unit=0 type=Standard nports=1 |
| %parallel | 0x378-0x37B | 07 | - | unit=0 |
| %console | - | - | - | unit=vga type=0 |

mswap - 1000, swplo - 0, Hz - 50, maximum user process size - 750k
mem: total = 15872k, reserved = 2k, kernel = 714k, user = 15156k
kernel: drivers = 1k, msg bufs = 8k, 4 screens = 19k,
400 block i/o bufs = 400k, 100 character lists,
rootdev 2/64, pipedev 31/1, swapdev 31/0

WARNING: No floating point emulator found in /etc/emulator

Z

Linux



MAC OS



Мобильные ОС

Представители операционных систем





Спасибо за внимание!