МИНОБРНАУКИ РОССИИ САНКТ-ПЕТЕРБУРГСКИЙ ГОСУДАРСТВЕННЫЙ ЭЛЕКТРОТЕХНИЧЕСКИЙ УНИВЕРСИТЕТ "ЛЭТИ" ИМ. В.И. УЛЬЯНОВА (ЛЕНИНА)

Кафедра математического обеспечения и применения ЭВМ

Отчет

По лабораторной работе №1

По дисциплине "Операционные системы"

Тема: Исследование структур загрузочных модулей

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Цель работы.

Исследование различий структур исходных модулей типов .com и .exe, структур файлов загрузочных модулей и способов загрузки в основную память.

Необходимые сведения.

Тип IBM PC хранится в байте по адресу 0F000:0FFFEh, в предпоследнем байте ROM BIOS. Соответствие кода и типа в таблице:

PC	FF
PC/XT	FE, FB
AT	FC
PS2 модель 30	FA
PS2 модель 50 или 60	FC
PS2 модель 80	F8
PCjr	FD
PC Convertible	F9

Для определения версии MS DOS следует воспользоваться функцией 30h прерывания 21h. Входным параметром является номер функции в AH:

mov ah, 30h

int 21h

Выходными параметрами являются:

AL - номер основной версии. Если 0, то <2.0

АН - номер модификации

BH - серийный номер OEM(Original Equipment Manufacturer)

BL:CX – 24-битовый серийный номер пользователя.

Постановка задачи.

Требуется реализовать текст исходного .com модуля, который определяет тип PC и версию системы. Ассемблерная программа должна читать содержимое предпоследнего байта ROM BIOS, по таблице, сравнивая коды, определять тип PC и выводить строку с названием модели. Если код не совпадает ни с одним значением, то двоичный код переводиться в символьную строку, содержащую запись шестнадцатеричного числа и выводиться на экран в виде соответствующего сообщения. Затем определяется версия системы. Ассемблерная программа должна по значениям регистров al и ah формировать текстовую строку в формате хх.уу, где хх - номер основной версии, а уу - номер модификации в десятичной системе счисления, формировать строки с серийным номером ОЕМ и серийным номером пользователя. Полученные строки выводятся на экран.

Далее необходимо отладить полученный исходный модуль и получить "хороший" .com модуль, а также необходимо построить "плохой" .exe, полученный из исходного текста для .com модуля.

Затем нужно написать текст "хорошего" .exe модуля, который выполняет те же функции, что и модуль .com, далее его построить, отладить и сравнить исходные тексты для .com и .exe модулей.

Выполнение работы.

Для определения типа PC и версии были написаны тексты .com и .exe модулей. Для определения версии MS DOS была использована функция 30h прерывания 21h. После ее вызова версия системы определяется значением регистров al, ah. В регистре bh - серийный номер OEM, в bl:cx — 24-битовый серийный номер пользователя.

Результат выполнения .com модуля виден на рис. 1. Результат выполнения "плохого" .exe модуля, полученного из исходного текста для .com модуля, виден на рис. 2. Результат выполнения "хорошего" .exe модуля - на рис. 3.

```
C:\>LR1COM.COM
IBM PC type - PS2 ver. 50/60 or AT
Your MSDOS type is 05.00
SERIAL OEM number is 255
SERIAL user number is 000000
```

Рисунок 1 - Результат работы lr1com.com

```
C:N>LR1COM.EXE

OFFISIBM PC type -

OFFISIBM PC type - 5 0

OFFISIBM PC type - 5 0

OFFISIBM PC type - 255

OFFISIBM PC type - 255

OFFISIBM PC type - 255
```

Рисунок 2 - Результат lr1com.exe

```
C:\>LR1EXE.EXE
IBM PC type - PS2 ver. 50/60 or AT
Your MSDOS type is 05.00
SERIAL OEM number is 255
SERIAL user number is 000000
```

Рисунок 3 - Результат работы Ir1exe.exe

Представление исходных файлов в шестнадцатеричном виде представление исходных файлов в шестнадцатеричном виде:

```
000000000: E9 0E 01 49 42 4D 20 50
000000010: 20 24 50 43 0A 0D 24 50
                                          43 2F 58 54 0A 0D 24 50
                                                                       $PCED$PC/XTED$P
                                          33 30 0A 0D 24 50 53 32 S2 ver. 30⊠♪$PS2
00000000020: 53 32 20 76 65 72 2E 20
0000000030: 20 76 65 72 2E 20 35 30
                                          2F 36 30 20 6F 72 20 41
                                                                       ver. 50/60 or A
                                          76 65 72 2E 20 38 30 0A Tm/$PS2 ver. 80m
24 50 43 20 43 6F 6E 76 \(\frac{1}{2}\)$PCjrm/$PC Conv
0D 24 59 6F 75 72 20 4D ertiblem/$Your M
0000000040: 54 0A 0D 24 50 53 32 20
0000000050: 0D 24 50 43 6A 72 0A 0D
000000000000: 65 72 74 69 62 6C 65 0A
0000000070: 53 44 4F 53 20 74 79 70
                                                                      .0⊠1$0x.0y⊠1$SER
                                          6E 75 6D 62 65 72 20 69 IAL OEM number i
49 41 4C 20 75 73 65 72 s $\sigma\sets\sets\sets\left{ERIAL user}
0000000090: 49 41 4C 20 4F 45 4D 20
00000000A0: 73 20 24 0A 0D 53 45 52
00000000B0: 20 6E 75 6D 62 65 72 20
                                          69 73 20 24 51 52 E8 1C
                                                                        number is $ORèu
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00000000C0: 00 8A EC 8A D0 B4 02 CD
                                          21 8A D5 B4 02 CD 21 5A
0000000000: 59 C3 24 0F 3C 09 76 02
00000000E0: E8 EF FF 86 C4 B1 04 D2
                                          04 07 04 30 C3 51 8A E0 YÃ$$<ov€♦•♦0ÃQŠà
                                                                      èïÿ†Ä±♦ÒèèæÿYÃQR
                                          E8 E8 E6 FF 59 C3 51 52
00000000F0: 32 E4 33 D2 B9 0A 00 F7
                                          F1 80 CA 30 88 14 4E 33
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0000000100: D2 3D 0A 00 73 F1 3C 00
                                          74 04 0C 30 88 04 5A 59 Ò=s sñ< t♦90^♦Z
0000000110: C3 B8 00 F0 8E C0 26 A0
                                          FE FF BA 03 01 B4 09 CD Ã, ðŽÀ& þÿº♥@´oj
                                                                       !º$@<ÿt1º$@<bt*
0000000130: FB 74 26 BA 2D 01 3C FC
                                          74 1F BA 1F 01 3C FA 74 ût&º-@<üt▼º▼@<út
0000000140: 18 BA 44 01 3C F8 74 11
                                          BA 52 01 3C FD 74 0A BA
                                                                      ↑ºD@<øt∢ºR@<ýt⊠º
0000000150: 59 01 3C F9 75 00 E8 63
                                          3C 00 75 07 BA 7E 01 B4
                                          01 E8 72 FF 83 C6 04 8A oí!¾...@fÆ@èrÿfÆ♦§
0000000170: 09 CD 21 BE 85 01 83 C6
0000000180: C4 E8 6A FF BA 85 01 B4
                                          09 CD 21 B4 30 CD 21 BA Äèjÿº...@ of! of!
                                          E8 53 FF 8A 14 B4 02 CD 🕮 oí!ŠÇèSÿж 🍎 í
0000001A0: 21 8A 54 01 CD 21 8A 54
                                          02 CD 21 B4 30 CD 21 BA
                                          4C CD 21
                                                                       ŠÁè÷þ2À´LÍ!
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Рисунок 4 – lr1com.com в шестнадцатеричном виде.

```
00000002F0: 00 00 00 00 00 00 00 00
000000300: E9 0E 01 49 42 4D 20 50
                                                                               00 00 00 00 00 00 00 00
43 20 74 79 70 65 20 2D
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$PC⊠♪$PC/XT⊠♪$P
 0000000300: 29 00 01 49 42 40 20 30 000000310: 20 24 50 43 0A 0D 24 50 000000320: 53 32 20 76 65 72 2E 20 35 30 0000000340: 54 0A 0D 24 50 53 32 20 000000350: 0D 24 50 43 6A 72 0A 0D 000000350: 0D 24 50 43 6A 72 0A 0D
                                                                               43 2F 58 54 0A 0D 24 50 33 30 0A 0D 24 50 53 32
                                                                                                                                     S2 ver. 30€⊅$PS2
ver. 50/60 or A
                                                                               2F 36 30 20 6F 72 20 41
76 65 72 2E 20 38 30 0A
24 50 43 20 43 6F 6E 76
                                                                                                                                    Tml$PS2 ver. 80m
J$PCjrml$PC Conv
ertiblez♪$Your M
                                                                                                                                    .0æ≯$0x.0yæ≯$SER
IAL OEM number i
                                                                               30 79 0A 0D 24 53 45 52
6E 75 6D 62 65 72 20 69
                                                                               6E 75 6D 62 65 72 20 69
49 41 4C 20 75 73 65 72
69 73 20 24 51 52 E8 1C
21 8A D5 B4 02 CD 21 5A
04 07 04 30 C3 51 8A E0
E8 E8 E6 FF 59 C3 51 52
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  000000400: D2 3D 0A 00 73 F1 3C 00
                                                                               74 04 0C 30 88 04 5A 59
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                                                                               FE FF BA 03 01 B4 09 CD
BA 17 01 3C FE 74 2A 3C
74 1F BA 1F 01 3C FA 74
BA 52 01 3C FD 74 0A BA
 000000440: C3 B8 00 F0 8E C0 26 A0
000000420: 21 BA 12 01 3C FF 74 31
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!º$@<ÿt1º$@<þt*<
 0000000420: 21 BA 12 01 3C FF 74 31 0000000430: FB 74 26 BA 2D 01 3C FC 0000000440: 18 BA 44 01 3C F8 74 11 0000000450: 59 01 3C F9 75 00 E8 63 0000000460: B4 09 CD 21 B4 30 CD 21 0000000470: 09 CD 21 BE 85 01 83 C6
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↑ºD@<øt⊲ºR@<ýt⊠º
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oÍ! oÍ!< u•º~⊖
                                                                               FF B4 09 CD 21 BA 6A 01
3C 00 75 07 BA 7E 01 B4
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  000000490: 8D 01 B4 09 CD 21 8A C7
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   000004B0: A3 01 B4 09 CD 21 8A C3
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                                                                               E8 01 FF
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Рисунок 5 – lr1com.exe в шестнадцатеричном виде.

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0000000010:			DC	D6		00	2C	00	1E	00	00	00	01	00	56	00	⊕ÜÖU , ▲ ⊕ V
00000000020:			00	00	00	00	00	00	00	00	00	00	00	00	00	00	
0000000030:			00	00	00	00	00	00	00	00	00	00	00	00	00	00	
00000000040:			00	00	00	00	00	00	00	00	00	00	00	00	00	00	
00000000050:			00	00	00	00	00	00	00	00	00	00	00	00	00	00	
0000000060:			00	00	00	00	00	00	00	00	00	00	00	00	00	00	
0000000070:		00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
0000000080:		00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
0000000090:		00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
00000000A0:		00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
000000000В0:		00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
000000000C0:		00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
00000000D0:			00	00	00	00	00	00	00	00	00	00	00	00	00	00	
00000000E0:			00	00	00	00	00	00	00	00	00	00	00	00	00	00	
00000000F0:	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
0000000100:	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
0000000110:	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
0000000120:	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
0000000130:	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
0000000140:	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
0000000150:	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
0000000160:	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
0000000170:	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
0000000180:	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
0000000190:			00	00	00	00	00	00	00	00	00	00	00	00	00	00	
00000001A0:		00	00	00	00	00	00	99	00	99	99	00	00	99	00	00	
0000001B0:		99	99	99	99	99	00	00	00	99	00	99	00	99	99	00	
00000001B0.		00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
00000001C0.			00	00	00	00	00	00	00	00	00	00	00	00	00	00	
0000001D0:		00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
00000001E0:		00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
00000001F0:		00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
0000000210:		00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
0000000220:		00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
0000000230:		00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
0000000240:		00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
0000000250:			00	00	00	00	00	00	00	00	00	00	00	00	00	00	
9000000260:			00	00	00	00	00	99	00	00	00	00	00	00	00	00	
0000000270:			00	00	00	00	00	00	00	00	00	00	00	00	00	00	
9000000280:	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
0000000290:	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
00000002A0:	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
90000002B0:	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
00000002C0:	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
00000002D0:	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
00000002E0:	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
00000002F0:	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
0000000300:		00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
0000000310:		00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
0000000320:		00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
0000000330:		00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
0000000340:	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
0000000350:	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
0000000360:	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
0000000370:		00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
0000000370:		00	00	00	99	00	00	00	00	00	00	00	00	00	99	99	
0000000390:		00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
00000003A0:		00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
00000003B0:	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
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0000000410:	00 49 43	00 42 0A	00 00 4D 0D	00 00 20 24	00 00 50 50	00 00 43 43	00 00 20 2F	00 00 74 58	00 00 00 79 54	00 00 00 70 0A	00 00 00 65 0D	00 00 00 20 24	00 00 00 2D 50	00 00 00 20 53	00 00 00 24 32	00 00 00 50 20	CEJ\$PC/XTEJ\$PS2
0000000410:	00 49 43	00 42	00 00 4D	00 00 20	00 00 50	00 00 43	00 00 20	00 00 74	00 00 00 79	00 00 00 70	00 00 00 65	00 00 00 20	00 00 00 2D	00 00 00 20	00 00 00 24	00 00 00 50	CED\$PC/XTED\$PS2
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0000000410: 0000000420: 0000000430:	00 49 43 76 72	00 42 0A 65 2E	00 00 4D 0D 72	00 00 20 24 2E	00 00 50 50 20	00 00 43 43 33	00 00 20 2F 30	00 00 74 58 0A	00 00 00 79 54 0D	00 00 00 70 0A 24	00 00 00 65 0D 50	00 00 00 20 24 53	00 00 00 2D 50 32 41	00 00 00 20 53 20	00 00 00 24 32 76	00 00 00 50 20 65	Cal\$PC/XTal\$PS2 ver. 30al\$PS2 v r. 50/60 or ATa
0000000410: 0000000420: 0000000430:	00 49 43 76 72 24	00 42 0A 65 2E	00 00 4D 0D 72 20	00 00 20 24 2E 35	00 00 50 50 20 30	00 00 43 43 33 2F	00 00 20 2F 30 36	00 00 74 58 0A 30	00 00 00 79 54 0D 20	00 00 00 70 0A 24 6F	00 00 00 65 0D 50 72	00 00 00 20 24 53 20	00 00 00 2D 50 32 41	00 00 00 20 53 20 54	00 00 00 24 32 76 0A	00 00 00 50 20 65 0D	Cal\$PC/XTal\$PS2 ver. 30al\$PS2 v r. 50/60 or ATa
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0000000410: 00000000420: 00000000430: 0000000440: 0000000450:	00 49 43 76 72 24 43 69	00 42 0A 65 2E 50 6A 62	00 00 4D 0D 72 20 53 72 6C	00 00 20 24 2E 35 32 0A 65	00 50 50 20 30 20 0D 0A	00 00 43 43 33 2F 76 24 0D	00 00 20 2F 30 36 65 50 24	00 00 74 58 0A 30 72 43 59	00 00 79 54 0D 20 2E 20 6F	00 00 70 0A 24 6F 20 43 75	00 00 65 0D 50 72 38 6F 72	00 00 20 24 53 20 30 6E 20	00 00 2D 50 32 41 0A 76 4D	00 00 00 20 53 20 54 0D 65 53	00 00 24 32 76 0A 24 72 44	00 00 50 20 65 0D 50 74 4F	Cmj\$PC/XTmj\$PS2 ver. 30mj\$PS2 vr. 50/60 or ATm \$PS2 ver. 80mj\$ Cjrmj\$PC Convertiblemj\$Your MSD
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 $\label{eq:problem} \mbox{Pисунок } 6-\mbox{lr1exe.exe } \mbox{в шестнадцатеричном виде.}$ $\mbox{Рассмотреть файлы модулей .com } \mbox{u .exe можно } \mbox{в отладчикe.}$

```
[ ]=CPU 80486=
                                                      =1=[†][↓]=
cs:0100>E90E01
                                0211 ↓
                                                 ax 0000
                         jmp
                                                             c=0
                                                 b× 0000
cs:0103 49
                         dec
                                                             z=0
cs:0104 42
                                                 cx 0000
                         inc
                                d×
                                                             s=0
cs:0105 4D
                         dec
                                bp
                                                 d× 0000
                                                             o=0
cs:0106 205043
                         and
                                [bx+si+43],d1
                                                 si 0000
                                                             p=0
                                [si+79],dh
cs:0109 207479
                         and
                                                 di 0000
                                                             a=0
cs:010C 7065
                                0173
                                                 bp 0000
                         jo
                                                             i=1
cs:010E 202D
                                [di],ch
                         and
                                                 sp FFFE
                                                             d=0
cs:0110 2024
                         and
                                [si],ah
                                                 ds 489D
cs:0112 50
                                                 es 489D
                         push
cs:0113 43
                                                 ss 489D
                         inc
                                bx cl,[di]
cs:0114 0A0D
                                                 cs 489D
                         or
cs:0116 2450
                                al,50
                                                 ip 0100
                         and
ds:0000 CD 20 FF 9F 00 EA FF FF = fΩ
ds:0008 AD DE E0 01 C5 15 AA 01 i α⊕-{§--⊕
ds:0010 C5 15 89 02 20 10 92 01 +8ee ►ff©
                                                 ss:0000 ZOCD
ds:0018 01 01 01 00 02 FF FF FF 999 8
                                                 ss:FFFE>0000
```

Рисунок 7 - lr1com.com в td.exe отладчике.

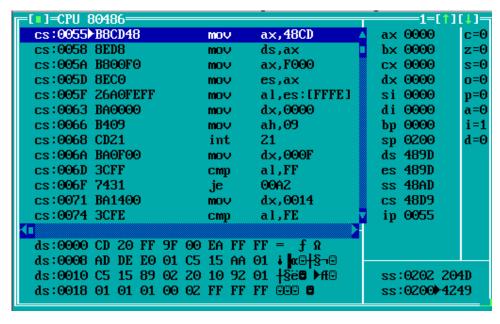


Рисунок 8 - lr1 exe. exe в td. exe отладчике.