

МИНОБРНАУКИ РОССИИ
САНКТ-ПЕТЕРБУРГСКИЙ ГОСУДАРСТВЕННЫЙ
ЭЛЕКТРОТЕХНИЧЕСКИЙ УНИВЕРСИТЕТ
«ЛЭТИ» ИМ. В.И. УЛЬЯНОВА (ЛЕНИНА)
Кафедра МОЭВМ

ОТЧЕТ
по лабораторной работе №1
по дисциплине «Программирование на ассемблере»
Тема: Модель z/OS

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Преподаватель

Санкт-Петербург

2020

Цель работы.

Стартовать VistaTN3270 и Hercules, войти в TSO и ISPF, корректно выйти из системы. Снова войти для проверки корректности предыдущего входа и снова выйти.

Основные теоретические положения.

Start VISTA session twice: IP= 127.0.0.1 Port=3270.

Start cmd.exe and CLI enter

Hrcules window: ESC - change view. If you see IPL word with highlight L symbol enter L.

Enter F (device# 0A81) for requested IPL device.

Когда пользовательская консоль отобразит входной экран (красный цвет), введите команду

Затем введите пароль SYS1

Функцию ввода исполняет клавиша Right-Ctrl

Нажмите Right-Ctrl и войдите в главное меню ISPF.

В пользовательской консоли выйдите в TSO нажимая F3

Затем введите команд

Окно пользовательской консоли можно закрыть.

В окне системной консоли введите \$p jes2 (stop JES).

Введите z eod и quiesce.

Закройте окно системной контроли.

В окне Hercules после сообщения "Quiesce function performed" введите команду QUIT.

Ход работы.

Hercules CPU0000: 3% z/Arch				Peripherals			
				U	Addr	Modl	Type Assignment
0706000000000000 PSW 24..W...Z				A	0700	3270	DSP 127.0.0.1
				B	0701	3270	DSP 127.0.0.1
				C	0702	3270	DSP
				D	0703	3270	DSP
				E	0704	3270	DSP
0	0000000000000000	1	F000000000000000	F	0A81	3390	DASD C:/MyzOS/cckd/zares1.cckd [3339 cyls]
2	0000000000000000	3	F000000000000000	G	0A82	3390	DASD C:/MyzOS/cckd/zares2.cckd [3339 cyls]
4	0000000000000000	5	8000000000000000	H	0A83	3390	DASD C:/MyzOS/cckd/zadb81.cckd [3339 cyls]
6	0000000000000000	7	0000000000000000	I	0A84	3390	DASD C:/MyzOS/cckd/zadb82.cckd [3339 cyls]
8	FF00000000000000	9	0000000000000000	J	0A85	3390	DASD C:/MyzOS/cckd/zadb83.cckd [3339 cyls]
A	0000000000000000	B	F000000000000000	K	0A86	3390	DASD C:/MyzOS/cckd/zadb84.cckd [3339 cyls]
C	8000000000000000	D	0000000000000000	L	0A87	3390	DASD C:/MyzOS/cckd/zadb91.cckd [3339 cyls]
E	7000000000000000	F	F000000000000000	M	0A88	3390	DASD C:/MyzOS/cckd/zadb92.cckd [3339 cyls]
GPR CR AR FPR				N	0A89	3390	DASD C:/MyzOS/cckd/zadic1.cckd [3339 cyls]
ADDRESS: 00000000 DATA: 00000000				O	0A8A	3390	DASD C:/MyzOS/cckd/zadis1.cckd [3339 cyls]
2.74 8 STO DIS RST				P	0A8B	3390	DASD C:/MyzOS/cckd/zadis2.cckd [3339 cyls]
MIPS SIO/s				Q	0A8C	3390	DASD C:/MyzOS/cckd/zadis3.cckd [3339 cyls]
STR STP EXT IPL PWR				R	0A8D	3390	DASD C:/MyzOS/cckd/zadis4.cckd [3339 cyls]
				S	0A8E	3390	DASD C:/MyzOS/cckd/zadis5.cckd [3339 cyls]
				T	0A8F	3390	DASD C:/MyzOS/cckd/zadis6.cckd [3339 cyls]
				U	0A90	3390	DASD C:/MyzOS/cckd/zaims1.cckd [3339 cyls]
				V	0A91	3390	DASD C:/MyzOS/cckd/zaprd1.cckd [3339 cyls]
				W	0A92	3390	DASD C:/MyzOS/cckd/zaprd2.cckd [3339 cyls]
				X	0A93	3390	DASD C:/MyzOS/cckd/zaprd3.cckd [3339 cyls]
				Y	0A94	3390	DASD C:/MyzOS/cckd/zaprd4.cckd [3339 cyls]
				Z	0A95	3390	DASD C:/MyzOS/cckd/zasys1.cckd [3339 cyls]
				.	0A96	3390	DASD C:/MyzOS/cckd/zauss1.cckd [3339 cyls]

Рисунок 1 — Интерфейс Hercules после запуска z/OS

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Vista TN3270 Session A
File Edit Font Transfer Macro Options Window Help
[Icons] [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] [21] [22] [23] [24] [25] [26] [27] [28] [29] [30] [31] [32] [33] [34] [35] [36] [37] [38] [39] [40] [41] [42] [43] [44] [45] [46] [47] [48] [49] [50] [51] [52] [53] [54] [55] [56] [57] [58] [59] [60] [61] [62] [63] [64] [65] [66] [67] [68] [69] [70] [71] [72] [73] [74] [75] [76] [77] [78] [79] [80] [81] [82] [83] [84] [85] [86] [87] [88] [89] [90] [91] [92] [93] [94] [95] [96] [97] [98] [99] [100] [101] [102] [103] [104] [105] [106] [107] [108] [109] [110] [111] [112] [113] [114] [115] [116] [117] [118] [119] [120] [121] [122] [123] [124] [125] [126] [127] [128] [129] [130] [131] [132] [133] [134] [135] [136] [137] [138] [139] [140] [141] [142] [143] [144] [145] [146] [147] [148] [149] [150] [151] [152] [153] [154] [155] [156] [157] [158] [159] [160] [161] [162] [163] [164] [165] [166] [167] [168] [169] [170] [171] [172] [173] [174] [175] [176] [177] [178] [179] [180] [181] [182] [183] [184] [185] [186] [187] [188] [189] [190] [191] [192] [193] [194] [195] [196] [197] [198] [199] [200] [201] [202] [203] [204] [205] [206] [207] [208] [209] [210] [211] [212] [213] [214] [215] [216] [217] [218] [219] [220] [221] [222] [223] [224] [225] [226] [227] [228] [229] [230] [231] [232] [233] [234] [235] [236] [237] [238] [239] [240] [241] [242] [243] [244] [245] [246] [247] [248] [249] [250] [251] [252] [253] [254] [255] [256] [257] [258] [259] [260] [261] [262] [263] [264] [265] [266] [267] [268] [269] [270] [271] [272] [273] [274] [275] [276] [277] [278] [279] [280] [281] [282] [283] [284] [285] [286] [287] [288] [289] [290] [291] [292] [293] [294] [295] [296] [297] [298] [299] [300] [301] [302] [303] [304] [305] [306] [307] [308] [309] [310] [311] [312] [313] [314] [315] [316] [317] [318] [319] [320] [321] [322] [323] [324] [325] [326] [327] [328] [329] [330] [331] [332] [333] [334] [335] [336] [337] [338] [339] [340] [341] [342] [343] [344] [345] [346] [347] [348] [349] [350] [351] [352] [353] [354] [355] [356] [357] [358] [359] [360] [361] [362] [363] [364] [365] [366] [367] [368] [369] [370] [371] [372] [373] [374] [375] [376] [377] [378] [379] [380] [381] [382] [383] [384] [385] [386] [387] [388] [389] [390] [391] [392] [393] [394] [395] [396] [397] [398] [399] [400] [401] [402] [403] [404] [405] [406] [407] [408] [409] [410] [411] [412] [413] [414] [415] [416] [417] [418] [419] [420] [421] [422] [423] [424] [425] [426] [427] [428] [429] [430] [431] [432] [433] [434] [435] [436] [437] [438] [439] [440] [441] [442] [443] [444] [445] [446] [447] [448] [449] [450] [451] [452] [453] [454] [455] [456] [457] [458] [459] [460] [461] [462] [463] [464] [465] [466] [467] [468] [469] [470] [471] [472] [473] [474] [475] [476] [477] [478] [479] [480] [481] [482] [483] [484] [485] [486] [487] [488] [489] [490] [491] [492] [493] [494] [495] [496] [497] [498] [499] [500] [501] [502] [503] [504] [505] [506] [507] [508] [509] [510] [511] [512] [513] [514] [515] [516] [517] [518] [519] [520] [521] [522] [523] [524] [525] [526] [527] [528] [529] [530] [531] [532] [533] [534] [535] [536] [537] [538] [539] [540] [541] [542] [543] [544] [545] [546] [547] [548] [549] [550] [551] [552] [553] [554] [555] [556] [557] [558] [559] [560] [561] [562] [563] [564] [565] [566] [567] [568] [569] [570] [571] [572] [573] [574] [575] [576] [577] [578] [579] [580] [581] [582] [583] [584] [585] [586] [587] [588] [589] [590] [591] [592] [593] [594] [595] [596] [597] [598] [599] [600] [601] [602] [603] [604] [605] [606] [607] [608] [609] [610] [611] [612] [613] [614] [615] [616] [617] [618] [619] [620] [621] [622] [623] [624] [625] [626] [627] [628] [629] [630] [631] [632] [633] [634] [635] [636] [637] [638] [639] [640] [641] [642] [643] [644] [645] [646] [647] [648] [649] [650] [651] [652] [653] [654] [655] [656] [657] [658] [659] [660] [661] [662] [663] [664] [665] [666] [667] [668] [669] [670] [671] [672] [673] [674] [675] [676] [677] [678] [679] [680] [681] [682] [683] [684] [685] [686] [687] [688] [689] [690] [691] [692] [693] [694] [695] [696] [697] [698] [699] [700] [701] [702] [703] [704] [705] [706] [707] [708] [709] [710] [711] [712] [713] [714] [715] [716] [717] [718] [719] [720] [721] [722] [723] [724] [725] [726] [727] [728] [729] [730] [731] [732] [733] [734] [735] [736] [737] [738] [739] [740] [741] [742] [743] [744] [745] [746] [747] [748] [749] [750] [751] [752] [753] [754] [755] [756] [757] [758] [759] [760] [761] [762] [763] [764] [765] [766] [767] [768] [769] [770] [771] [772] [773] [774] [775] [776] [777] [778] [779] [780] [781] [782] [783] [784] [785] [786] [787] [788] [789] [790] [791] [792] [793] [794] [795] [796] [797] [798] [799] [800] [801] [802] [803] [804] [805] [806] [807] [808] [809] [810] [811] [812] [813] [814] [815] [816] [817] [818] [819] [820] [821] [822] [823] [824] [825] [826] [827] [828] [829] [830] [831] [832] [833] [834] [835] [836] [837] [838] [839] [840] [841] [842] [843] [844] [845] [846] [847] 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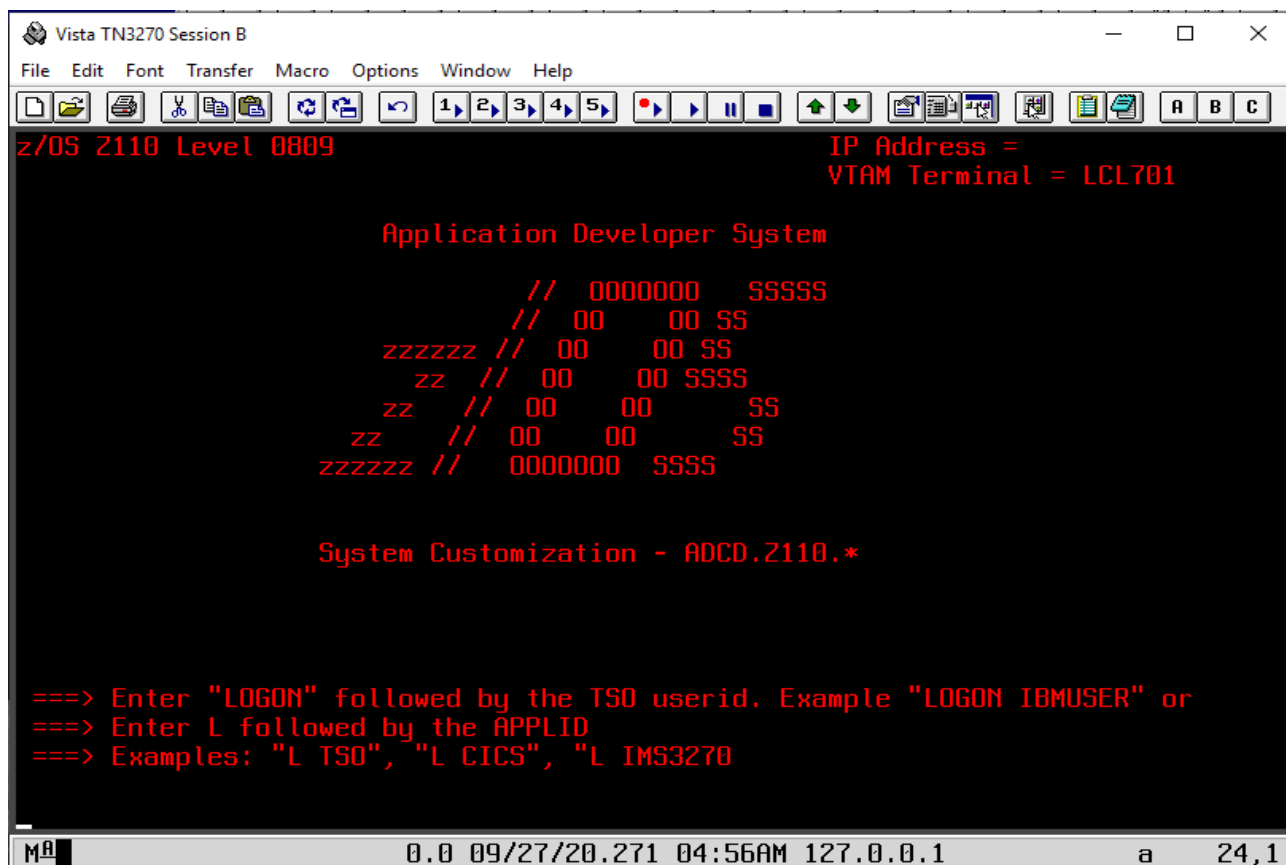


Рисунок 3 - Второе окно Vista после запуска z/OS

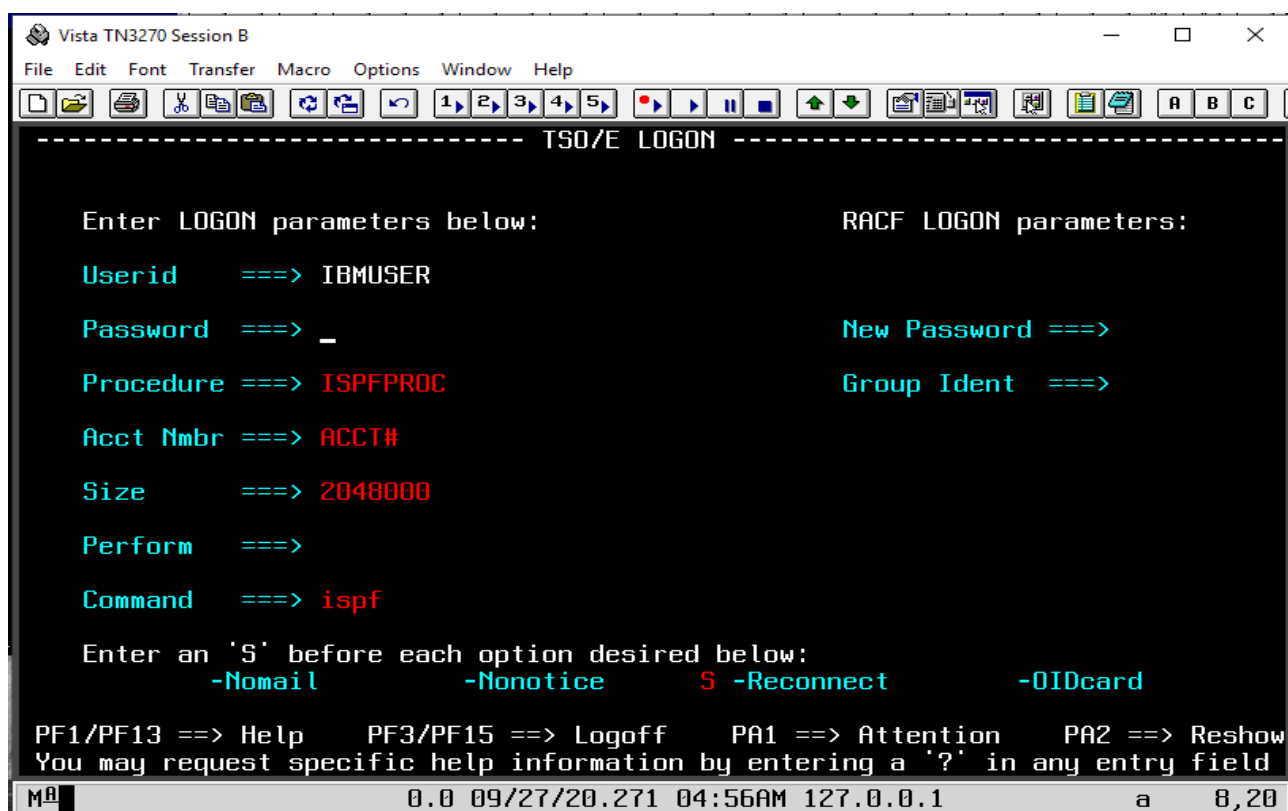


Рисунок 4 — Интерфейс z/OS после ввода команды logon

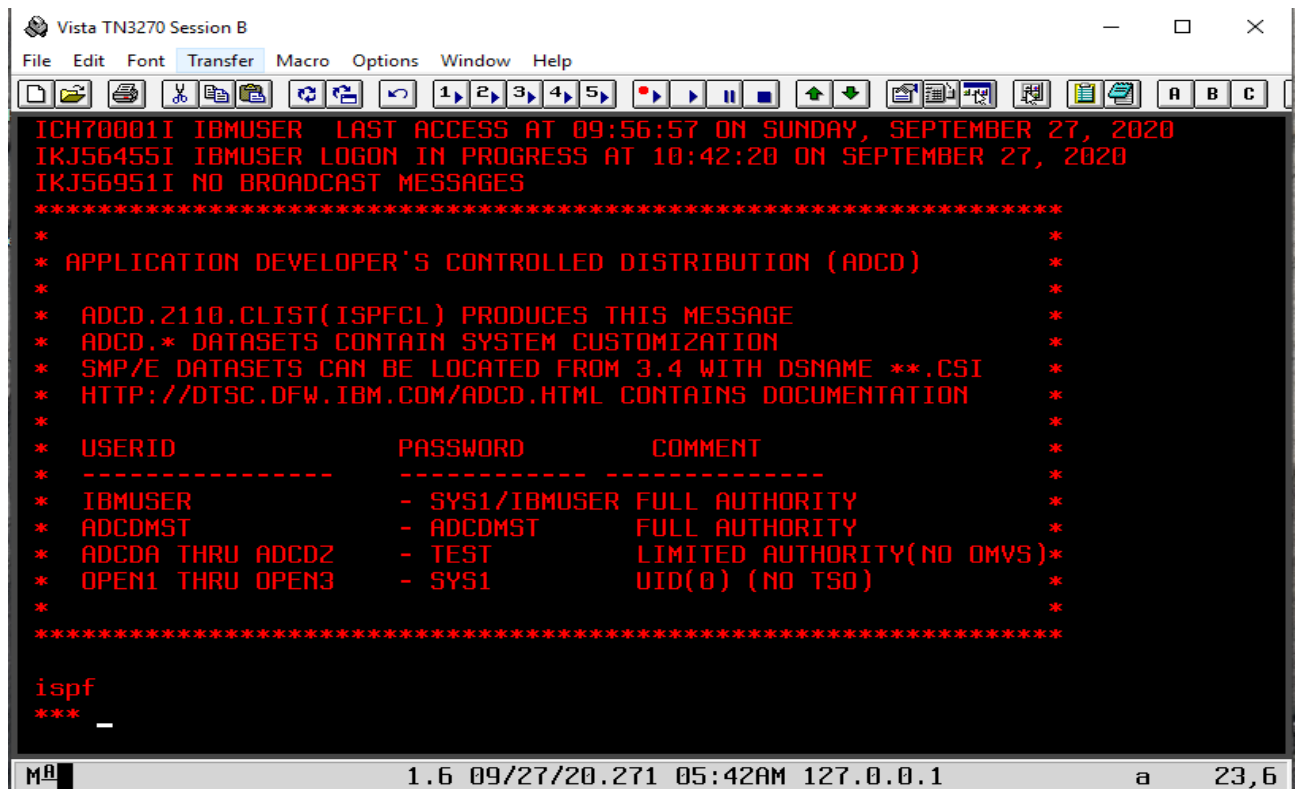


Рисунок 5 – главное меню ISPF

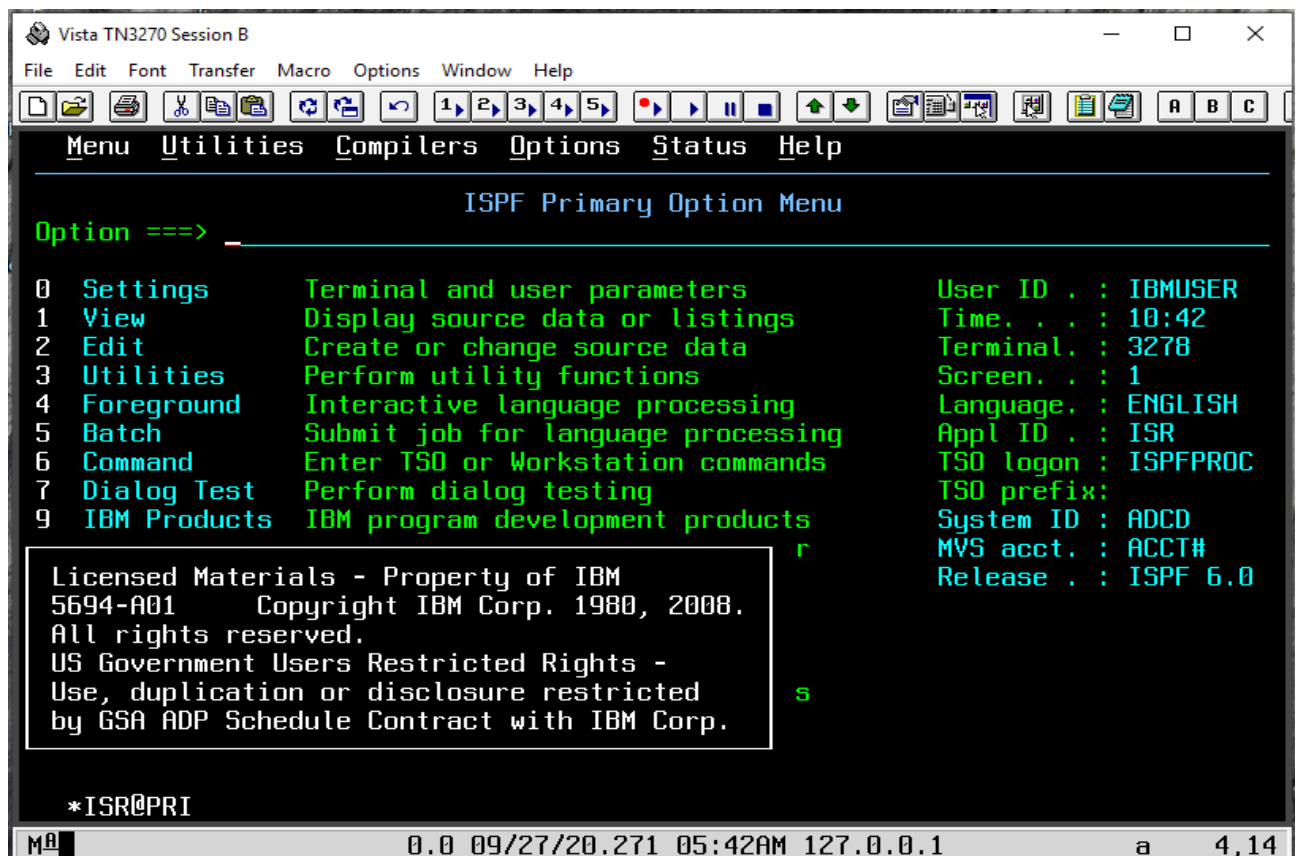


Рисунок 6 — TSO


```

*10.37.40 *IWM04BE WLM RUNNING IN GOAL MODE WITH THE DEFAULT
* POLICY
*10.38.40 STC01392 *02 DFHPA1909 CICS DATA 216 IS INVALID FOR KEYWORD
* CICSSVC=. RESPECIFY KEYWORD AND DATA.
*10.44.51 *$HASP607 JES2 NOT DORMANT -- MEMBER DRAINING,
* RC=10 ACTIVE ADDRESS SPACES
$HASP608 0043 BPXAS STC01404
$HASP608 0044 BPXAS STC01405
$HASP608 0045 BPXAS STC01406
$HASP608 0046 BPXAS STC01407
$HASP608 0047 BPXAS STC01408
$HASP608 0048 BPXAS STC01409
$HASP608 0049 PORTMAP STC01411
*10.44.51 *$HASP623 MEMBER DRAINING
00- 10.45.21 z eod
*10.45.21 *IFB080E LOGREC DATA SET NEAR FULL,
* DSN=SYS1.LOGREC
10.45.21 IEE334I HALT EOD SUCCESSFUL
10.45.21 CN24213I SYSLOG PROCESSING HAS ENDED
*10.45.22 *IEE037D LOG NOT ACTIVE
IEE612I CN=L700 DEVNUM=0700 SYS=ADCD
-
IEE163I MODE= RD
  
```

0.0 09/27/20.271 05:45AM 127.0.0.1 a 22,3

Рисунок 9 — Системная консоль после ввода z eod и quiesce

Hercules CPU0000: 100% z/Arch				Peripherals	
0404300080000000	00000000014423FC	PSW	31.....Z	A 0700 3270 DSP	127.0.0.1
00000000 00000000 00000000 00000000	0 1 2 3	E 0704 3270 DSP		D 0703 3270 DSP	
00000000 00000000 00000000 00000000	4 5 6 7	F 0A81 3390 DASD	C:/MyzOS/cckd/zares1.cckd	[3339 cyls]	
00000000 00000000 00000000 00000000	8 9 10 11	G 0A82 3390 DASD	C:/MyzOS/cckd/zares2.cckd	[3339 cyls]	
00000000 00000000 00000000 00000000	12 13 14 15	H 0A83 3390 DASD	C:/MyzOS/cckd/zadb81.cckd	[3339 cyls]	
GPR CR AR FPR		I 0A84 3390 DASD	C:/MyzOS/cckd/zadb82.cckd	[3339 cyls]	
ADDRESS: 00000000 DATA: 00000000		J 0A85 3390 DASD	C:/MyzOS/cckd/zadb83.cckd	[3339 cyls]	
		K 0A86 3390 DASD	C:/MyzOS/cckd/zadb84.cckd	[3339 cyls]	
		L 0A87 3390 DASD	C:/MyzOS/cckd/zadb91.cckd	[3339 cyls]	
		M 0A88 3390 DASD	C:/MyzOS/cckd/zadb92.cckd	[3339 cyls]	
		N 0A89 3390 DASD	C:/MyzOS/cckd/zadic1.cckd	[3339 cyls]	
		O 0A8A 3390 DASD	C:/MyzOS/cckd/zadis1.cckd	[3339 cyls]	
		P 0A8B 3390 DASD	C:/MyzOS/cckd/zadis2.cckd	[3339 cyls]	
		Q 0A8C 3390 DASD	C:/MyzOS/cckd/zadis3.cckd	[3339 cyls]	
		R 0A8D 3390 DASD	C:/MyzOS/cckd/zadis4.cckd	[3339 cyls]	
		S 0A8E 3390 DASD	C:/MyzOS/cckd/zadis5.cckd	[3339 cyls]	
		T 0A8F 3390 DASD	C:/MyzOS/cckd/zadis6.cckd	[3339 cyls]	
		U 0A90 3390 DASD	C:/MyzOS/cckd/zaims1.cckd	[3339 cyls]	
		V 0A91 3390 DASD	C:/MyzOS/cckd/zaprd1.cckd	[3339 cyls]	
		W 0A92 3390 DASD	C:/MyzOS/cckd/zaprd2.cckd	[3339 cyls]	
		X 0A93 3390 DASD	C:/MyzOS/cckd/zaprd3.cckd	[3339 cyls]	
		Y 0A94 3390 DASD	C:/MyzOS/cckd/zaprd4.cckd	[3339 cyls]	
		Z 0A95 3390 DASD	C:/MyzOS/cckd/zasys1.cckd	[3339 cyls]	
		. 0A96 3390 DASD	C:/MyzOS/cckd/zauss1.cckd	[3339 cyls]	

20.10 0 STO DIS RST
MIPS SIO/s
STR STP EXT IPL PWR
CPU
00 *****
01 STOPPED
02 STOPPED
03 STOPPED

Рисунок 10 — Окно Hercules после выхода из z/OS

```
C:\WINDOWS\system32\cmd.exe
HHCCD212I -----
HHCCD213I [*] 1520287744 0% 1 1 0 1 0 1
HHCCD214I 0 0 1
HHCCD215I C:/MyzOS/cckd/zawas2.cckd
HHCCD216I [0] 1520287744 0% 1 rw 1 0 1
HHCCF047I Subchannel 0:001C detached
HHCCD210I size free nbr st reads writes l2reads hits switches
HHCCD212I -----
HHCCD213I [*] 1691123712 0% 1 1 0 1 0 1
HHCCD215I C:/MyzOS/cckd/zawas3.cckd
HHCCD216I [0] 1691123712 0% 1 rw 1 0 1
HHCCF047I Subchannel 0:001D detached
HHCCD210I size free nbr st reads writes l2reads hits switches
HHCCD212I -----
HHCCD213I [*] 529743872 0% 1 1 0 1 0 1
HHCCD215I C:/MyzOS/cckd/sares1.cckd
HHCCD216I [0] 529743872 0% 1 rw 1 0 1
HHCCD011I Readahead thread 1 stopping: tid=00002E18, pid=20748
HHCCD011I Readahead thread 2 stopping: tid=00005500, pid=20748
HHCCD013I Garbage collector thread stopping: tid=000056E4, pid=20748
HHCCD012I Writer thread 1 stopping: tid=000082F4, pid=20748
HHCCD012I Writer thread 2 stopping: tid=00000FF0, pid=20748
HHCCF047I Subchannel 0:001E detached
HHCIN902I Configuration release complete
HHCIN903I Calling termination routines
HHCHD900I Begin shutdown sequence
HHCHD901I Calling panel_cleanup
HHCIN999I Hercules terminated
C:\Program Files\Hercules\R3.09>
```

Рисунок 11 — консоль после остановки Hercules

Выводы.

Был изучен процесс запуска z/OS в Hercules и подключения к нему, а также входа и выхода из системы.