

Dyson - Bug #163

PIE binaries cannot allocate memory

2013-12-01 12:04 PM - Igor Pashev

Status:	New	Start date:	2013-12-01
Priority:	Low	Due date:	
Assignee:		% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:			
Description			
After this commit illumos-packaging:0e39b90eab160820ae938fcb3ea27f056c482ef5 it is allowed to build PIE binaries, but such binaries cannot allocate memory. It probably because of wrong address of <code>_END</code> .			
<pre>\$ cat malloc-pie.c #include <stdlib.h> int main (int argc, char *argv[]) { return malloc (1024) == NULL; } \$ gcc -pie -fpie malloc-pie.c -o malloc-pie \$./malloc-pie ; echo \$? 1 \$ gcc malloc-pie.c -o malloc-no-pie \$./malloc-no-pie ; echo \$? 0 \$ truss -o pie.log ./malloc-pie \$ grep brk pie.log brk(0xFFFFFD7FFF400E30) Err#12 ENOMEM \$ truss -o no-pie.log ./malloc-no-pie \$ grep brk no-pie.log brk(0x00600D50) = 0 brk(0x00604D50) = 0</pre>			

History

#1 - 2014-01-01 03:03 PM - Igor Pashev

- Description updated

#2 - 2014-05-24 07:20 PM - Igor Pashev

- Priority changed from Normal to Low

#3 - 2017-09-04 06:45 PM - Igor Pashev

Coming soon: <https://www.illumos.org/issues/8609>