

valgrind 是什么 有什么用 怎么装

valgrind 是什么 有什么用 怎么装 / 是什么 有什么用 怎么装 , Redhat 是什么 有什么用 怎么装 是什么 有什么用 怎么装 .

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memcheck 是什么 有什么用 怎么装 是什么 有什么用 怎么装 是什么 有什么用 怎么装 是什么 有什么用 怎么装 10~30 是什么 有什么用 怎么装 .

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1. 是什么 是什么

```
$> yum install valgrind -y
```

2. valgrind 是什么 有什么用 怎么装

/usr/bin/test 是什么 有什么用 怎么装 是什么 有什么用 怎么装 是什么 有什么用 怎么装 .

```
$ valgrind --tool=memcheck --leak-check=summary --trace-children=yes /usr/bin/test
...
==21297== Memcheck, a memory error detector
==21297== Copyright (C) 2002-2017, and GNU GPL'd, by Julian Seward et al.
==21297== Using Valgrind-3.15.0 and LibVEX; rerun with -h for copyright info
==21297== Command: /usr/sbin/test
==21297==
ERROR: Please define server type (local and/or TCP).
==21298==
==21298== HEAP SUMMARY:
==21298== in use at exit: 101,185 bytes in 3,410 blocks
```

```

==21298== total heap usage: 5,613 allocs, 2,203 frees, 286,292 bytes allocated
==21298==
==21298== LEAK SUMMARY:
==21298== definitely lost: 0 bytes in 0 blocks
==21298== indirectly lost: 0 bytes in 0 blocks
==21298== possibly lost: 0 bytes in 0 blocks
==21298== still reachable: 101,185 bytes in 3,410 blocks
==21298== suppressed: 0 bytes in 0 blocks
==21298== Rerun with --leak-check=full to see details of leaked memory
==21298==
==21298== For lists of detected and suppressed errors, rerun with: -s
==21298== ERROR SUMMARY: 0 errors from 0 contexts (suppressed: 0 from 0)

```

- `leak --summary --full --leak-check=full`



1. `valgrind --leak-check=full --show-leak-kinds=all ./program`
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 - `valgrind --leak-check=full --show-leak-kinds=all ./program`

```
$ yum install valgrind -y
```

- `valgrind --tool=cachegrind --trace-children=yes /usr/sbin/test`

```

$ valgrind --tool=cachegrind --trace-children=yes /usr/sbin/test
==21906== Cachegrind, a cache and branch-prediction profiler
==21906== Copyright (C) 2002-2017, and GNU GPL'd, by Nicholas Nethercote et al.
==21906== Using Valgrind-3.15.0 and LibVEX; rerun with -h for copyright info
==21906== Command: /usr/sbin/clamd
==21906==
--21906-- warning: L3 cache found, using its data for the LL simulation.

```

ERROR: Please define server type (local and/or TCP).

==21907==

==21907== error: can't open cache simulation output file '/root/cachegrind.out.21907'

==21907== ... so simulation results will be missing.

==21907== I refs: 0

==21907== I1 misses: 0

==21907== LLi misses: 0

==21907== I1 miss rate: 0.00%

==21907== LLi miss rate: 0.00%

==21907==

==21907== D refs: 0 (0 rd + 0 wr)

==21907== D1 misses: 0 (0 rd + 0 wr)

==21907== LLd misses: 0 (0 rd + 0 wr)

==21907== D1 miss rate: 0.0% (0.0% + 0.0%)

==21907== LLd miss rate: 0.0% (0.0% + 0.0%)

==21907==

==21907== LL refs: 0 (0 rd + 0 wr)

==21907== LL misses: 0 (0 rd + 0 wr)

==21907== LL miss rate: 0.0% (0.0% + 0.0%)

1. cache ☐ ☐ * IL / D / ☐

- I☐ ☐ (Ir, ☐ ☐ ☐), I1, ☐ ☐ ☐ (I1mr), LL☐ ☐ ☐ ☐ (I1mr)
- D☐ ☐ (Dr, ☐ ☐ ☐), D1 ☐ ☐ ☐ (D1mr), LL ☐ ☐ ☐ ☐ (DLmr)
- D☐ ☐ (Dw, ☐ ☐ ☐), D1 ☐ ☐ ☐ (D1mw), LL ☐ ☐ ☐ ☐ (D1mw)
- ☐ ☐☐☐☐ ☐ ☐ ☐

Ir I1mr I1mr Dr D1mr DLmr Dw D1mw DLmw

6,122,264 3,538 2,481 1,725,087 79,539 16,924 655,284 10,140 8,215 PROGRAM TOTALS

- ☐☐ ☐

lr l1mr lLmr Dr D1mr DLmr Dw D1mw DLmw file:function

2,074,204 48 14 699,500 46,437 1,226 284,276 70 12 ???:do_lookup_x

reference

- <https://valgrind.org/docs/manual/cg-manual.html>
- https://access.redhat.com/documentation/ko-kr/red_hat_enterprise_linux/7/html/performance_tuning_guide/sect-red_hat_enterprise_linux-performance_tuning_guide-performance_monitoring_tools-valgrind

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