| Register analysis results *: for SPEC benchmarks: test workload: approx. 150 MB text file sourced from /dev/urandom *: workload: approx. 150 MB text file sourced from /dev/urandom **: workload: approx. 150 MB text file sourced from /dev/urandom **: workload: approx. 150 MB text file sourced from /dev/urandom **: workload: approx. 150 MB text file sourced from /dev/urandom **: workload: approx. 150 MB text file sourced from /dev/urandom **: workload: approx. 150 MB text file sourced from /dev/urandom **: workload: approx. 150 MB text file sourced from /dev/urandom **: workload: approx. 150 MB text file sourced from /dev/urandom **: workload: approx. 150 MB text file sourced from /dev/urandom **: workload: approx. 150 MB text file sourced from /dev/urandom **: workload: approx. 150 MB text file sourced from /dev/urandom **: workload: approx. 150 MB text file sourced from /dev/urandom **: workload: approx. 150 MB text file sourced from /dev/urandom **: workload: approx. 150 MB text file sourced from /dev/urandom **: workload: approx. 150 MB text file sourced from /dev/urandom **: workload: approx. 150 MB text file sourced from /dev/urandom **: workload: approx. 150 MB text file sourced from /dev/urandom **: workload: approx. 150 MB text file sourced from /dev/urandom **: workload: approx. 150 MB text file sourced from /dev/urandom **: workload: approx. 150 MB text file sourced from /dev/urandom **: workload: approx. 150 MB text file sourced from /dev/urandom **: workload: approx. 150 MB text file sourced from /dev/urandom **: workload: approx. 150 MB text file sourced from /dev/urandom **: workload: approx. 150 MB text file sourced from /dev/urandom **: workload: approx. 150 MB text file sourced from /dev/urandom **: workload: approx. 150 MB text file sourced from /dev/urandom **: workload: approx. 150 MB text file sourced from /dev/urandom **: workload: approx. 150 MB text file sourced from /dev/urandom **: workload: approx. 150 MB text file sourced from /dev/urandom **: workload: ap | | | | | | | | | | | | | | | | | |
|--|--------------------|----------------------|--------------------|-----------------|---|--------------------|-------------------|--------------------|--|--------------------------|------------------|------------------|------------------|-----------------|------------------|--------|---------------|
| Ranked hitlist | | | | | Static analysis | | | | | | . 55 5 | | | | Ranked hitlist | Ave | erage |
| Access frequency | S | ort | gzip | D | 602. | gcc_s | | ncf_s | 620.om | netpp_s | 631.de | epsjeng_s | Avera | age | Access frequency | | ic Hits |
| | x15/a5 | 16,79% x1 | | 22,71% | | 17,92% x | | 16,79% | | | x15/a5 | 16,87% | x15/a5 | 17,12% | | | |
| 2 | x0/zero | 12,16% x0 |)/zero | 11,50% | x0/zero | 13,24% x | 0/zero | 12,20% | x2/sp | 12,09% | x0/zero | 11,82% | x0/zero | 12,23% | 2 | 77,32% | mapped |
| | x14/a4 | 8,79% x1 | | 10,06% | x14/a4 | 9,25% x | | 8,93% | x10/a0 | | x14/a4 | 9,33% | x10/a0 | 9,19% | | | |
| | x10/a0 | 8,16% x1 | | | x10/a0 | 8,78% x | | | x0/zero | | x10/a0 | 7,91% | x14/a4 | 8,44% | 4 | | |
| | x2/sp | 8,11% x8 | | 6,98% | | 8,56% x | | 7,48% | | 9,29% | | 7,36% | x1/ra | | 5 | | |
| | x8/s0/fp | 5,84% x2 | | 6,77% | | 6,80% x | | | x8/s0/fp | | x13/a3 | 6,24% | x2/sp | 8,01% | 6 | | |
| | x13/a3 | 5,52% x1 | | | x8/s0/fp | 4,90% x | | 5,79% | | | x8/s0/fp | 5,44% | x8/s0/fp | 5,58% | / | | |
| | x11/a1 | 4,21% x1 | | | x13/a3 | 4,46% x | | 4,32% | | | x12/a2 | 4,38% | x11/a1 | 4,42% | | | |
| | x12/a2 x1/ra | 4,20% x1 3,54% x1 | | 3,72% 3,26% | | 4,20% x 3,74% x | | 4,26% : 3,24% : | | 4,59% 3,22% | x11/a1 | 4,22% 3,13% | x13/a3 x9/s1 | 4,31% 3,83% | 10 | | |
| | x1/1a x9/s1 | 3,34% x1 | | 2,84% | | 3,74% x | | 3,24% | | 3,22% | | 3,08% | x12/a2 | 3,66% | | | |
| | x18/s2 | 2,23% x1 | | 2,03% | | 2,61% x | | 2,34% | | | x18/s2 | 2,32% | x12/82 | 2,66% | | | |
| | x19/s3 | 1,99% x1 | | 1,72% | | 2,06% x | | 2,06% | | | x19/s3 | 2,05% | x19/s3 | 2,08% | | | |
| | x20/s4 | 1,52% x2 | | 1,22% | | 1,54% x | | 1,47% | | | x20/s4 | 1,53% | x20/s4 | 1,54% | | 22,68% | not mapped |
| | x21/s5 | 1,42% x2 | | 1,18% | | 1,27% x | | 1,46% | • | | x21/s5 | 1,48% | x21/s5 | 1,27% | | | |
| | x16/a6 | 1,40% x1 | | 1,13% | | 1,10% x | | 1,36% | | | x16/a6 | 1,39% | x22/s6 | | 16 | | |
| 17 | x22/s6 | 1,21% x2 | | 1,01% | | 0,98% x | | 1,25% | | 0,85% | x26/s10 | 1,22% | x23/s7 | 0,97% | 17 | | |
| 18 | x25/s9 | 1,20% x2 | 22/s6 | 0,97% | x24/s8 | 0,85% x | 26/s10 | 1,22% | x6/t1 | 0,83% | x17/a7 | 1,22% | x24/s8 | 0,84% | 18 | | |
| | x26/s10 | 1,15% x2 | 26/s10 | 0,96% | x25/s9 | 0,80% x | 22/s6 | 1,19% | x24/s8 | 0,74% | x22/s6 | 1,22% | x25/s9 | 0,81% | 19 | | |
| | x23/s7 | 1,15% x1 | | | x26/s10 | 0,74% x | | 1,18% | x25/s9 | 0,68% | x23/s7 | 1,17% | x26/s10 | 0,75% | | | |
| | x17/a7 | 1,15% x2 | | | x27/s11 | 0,70% x | | 1,15% | | | x27/s11 | 1,10% | x27/s11 | | 21 | | |
| | x24/s8 | 1,00% x2 | | | x16/a6 | 0,53% x | | | x26/s10 | | x25/s9 | 1,09% | x16/a6 | | 22 | | |
| | x27/s11 | 0,94% x2 | | 0,84% | | 0,34% x | | | x27/s11 | | x24/s8 | 1,02% | x6/t1 | 0,49% | | | |
| | x6/t1 | 0,72% x6 | | 0,62% | | 0,34% x | | 0,77% | • | 0,42% | | 0,80% | x17/a7 | | 24 | | |
| | x3/gp | 0,61% x2 | | 0,44% | | 0,14% x | | 0,57% | | | x28/t3 | 0,59% | x3/gp | | 25 | | |
| | x28/t3 | 0,52% x2 | | 0,29% | | 0,13% x | | 0,54% | | 0,18% | | 0,56% | x28/t3 | 0,20% | 25 | | |
| | x29/t4 x30/t5 | 0,32% x4 0,23% x3 | | 0,21% 0,20% | | 0,11% x 0,08% x | | 0,37% : 0,26% : | | | x29/t4 x30/t5 | 0,42% 0,27% | x29/t4 x30/t5 | 0,15% 0,10% | 28 | | |
| | x4/tp | 0,23% x3 | | 0,20% | | 0,08% x | | 0,28% | • | | x30/t5 x31/t6 | 0,27% | x30/15 x31/t6 | | 29 | | |
| | x4/tp x31/t6 | 0,23% x5 | | 0,13% | | 0,07% x | | 0,23% | | 0,05% | | 0,24% | x5/t0 | 0,05% | 30 | | |
| | x7/t2 | 0,13% x7 | | 0,09% | | 0,04% x | | 0,16% | | 0,04% | | 0,17% | x7/t2 | 0,05% | 31 | | |
| | x5/t0 | 0,12% x3 | | 0,00% | | 0,01% x | | 0,12% | | 0,04% | | 0,16% | x4/tp | 0,05% | 32 | | |
| Ranked hitlist | λ5/ το | 0,1270 X | 7 5 1 | 0,0070 | х і, ср | 0,0170 X | | | ,,, <u>,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,,</u> | 0,0170 | W/ C | 0,1070 | х 17 ср | 0,0370 | Ranked hitlist | Δν | erage |
| | | | | 500 | Dynamic gcc s* 605.mcf s* 620.omne | | | | | etpp_s* 631.deepsjeng_s* | | | | | | | |
| Access frequency | | ort 40.039/ | gzip* | | x15/a5 | cc_s* | | | | netpp_s* | | | | Ü | Access frequency | Dyllai | ilic filts |
| 1 | x15/a5 | | x15/a5 | 57,77% | | 20,03% | x15/a5 | 15,38% | x15/a5 | 15,21% | | 22,02% | x15/a5 | 35,17% | | | |
| 2 | x8/s0/fp x14/a4 | 21,43% 20,04% | x14/a4 x8/s0/fp | 19,35% 5,53% | x14/a4 x2/sp | 10,44% 10,41% | x14/a4 x0/zero | 10,11% 9,11% | x2/sp x10/a0 | 11,63% 10,19% | | 14,97% 10,22% | x14/a4 x13/a3 | 15,46% 5,78% | 3 | | |
| 3 | x14/a4 x13/a3 | 7,59% | x13/a3 | 4,42% | x0/zero | 7,88% | x10/a0 | 6,73% | x10/a0 x14/a4 | 9,71% | | 8,36% | x13/a3 x10/a0 | 5,70% | 4 | | |
| 5 | x2/sp | | x0/zero | 3,07% | x13/a3 | 7,01% | x17/a7 | 6,67% | x0/zero | 8,17% | | 5,59% | x0/zero | 5,22% | | | |
| 6 | x0/zero | 1,90% | x9/s1 | 2,56% | x10/a0 | 6,55% | x8/s0/fp | 6,53% | x13/a3 | 5,87% | | 5,03% | x8/s0/fp | 4,77% | | / | |
| 7 | x1/ra | 1,31% | x2/sp | 2,51% | x8/s0/fp | 4,89% | x13/a3 | 4,36% | x8/s0/fp | 5,45% | x12/a2 | 4,19% | x2/sp | | 7 | 83,59% | mapped |
| 8 | x10/a0 | 0,99% | x18/s2 | 1,05% | x12/a2 | 4,41% | x11/a1 | 4,33% | x1/ra | 5,25% | | 3,24% | x12/a2 | 2,73% | 8 | | |
| 9 | x12/a2 | 0,98% | x1/ra | 0,89% | x1/ra | 3,85% | x6/t1 | 3,99% | x11/a1 | 5,13% | x1/ra | 2,83% | x11/a1 | | 9 | | |
| 10 | x11/a1 | 0,78% | x10/a0 | 0,87% | x11/a1 | 3,78% | x12/a2 | 3,97% | x12/a2 | 4,15% | x8/s0/fp | 2,53% | x9/s1 | 2,31% | 10 | | |
| 11 | | 0,21% | x12/a2 | 0,79% | x9/s1 | 3,42% | x27/s11 | 3,81% | x9/s1 | 3,66% | x9/s1 | 1,84% | x1/ra | 2,24% | | | |
| 12 | | 0,14% | x21/s5 | 0,36% | x18/s2 | 2,66% | x1/ra | 2,81% | x18/s2 | 2,44% | x18/s2 | 1,74% | x17/a7 | | 12 | | |
| 13 | | 0,11% | x11/a1 | 0,33% | x16/a6 | 2,41% | x31/t6 | 2,73% | x19/s3 | 1,91% | | 1,64% | x18/s2 | 1,39% | | | |
| 14 | | 0,11% | x20/s4 | 0,25% | x19/s3 | 2,36% | x5/t0 | 2,54% | x16/a6 | 1,57% | | 1,64% | x27/s11 | 1,21% | | | |
| 15 | | 0,09% | x19/s3 | 0,24% | x20/s4 | 1,68% | x21/s5 | 2,02% | x17/a7 | 1,18% | | 1,53% | x19/s3 | , | 15 | | |
| 16 | | | x16/a6 | 0,02% | x21/s5 | 1,22% | x9/s1 | 1,85% | x20/s4 | 1,15% | | 1,36% | x6/t1 | | 16 | | |
| 17 | | 0,08% | x17/a7 | 0,00% | x22/s6 | 1,13% | x19/s3 | 1,70% | x21/s5 | 1,07% | | 1,20% | x21/s5 | 0,98% | | | |
| 18 | | 0,07% | x4/tp | 0,00% | x17/a7 | 1,07% | x28/t3 | 1,46% | x22/s6 | 0,87% | | 1,16% | x20/s4 | - | 18 | | |
| 19 | | 0,06% | x25/s9 | 0,00% | x23/s7 | 0,87% | x20/s4 | 1,43% | x29/t4 | 0,71% | | 1,14% | x16/a6 | 0,67% | | | |
| 20 21 | x24/s8 | 0,06% | x23/s7 | 0,00% | x25/s9 x26/s10 | 0,79% | x26/s10 | 1,21% | x6/t1 | 0,70% | | 0,99% | x31/t6 | 0,63% | | | |
| 17 | x22/s6 | 0,05% | x22/s6 | 0,00% | XZ6/S10 | 0,69% | x2/sp | 1,20% | x25/s9 | 0,62% | x17/a7 | 0,89% | x28/t3 | 0,61% | Z1 | | |

x6/t1

x28/t3

x21/s5

x23/s7

x29/t4

x31/t6

x30/t5

x7/t2

x3/gp

x5/t0

x4/tp

0,05%

0,05%

0,05%

0,03%

0,03%

0,02%

0,02%

0,01%

0,01%

0,01%

0,00%

x24/s8

x26/s10

x27/s11

x6/t1

x28/t3

x29/t4

x30/t5

x7/t2

x5/t0

x31/t6

x3/gp

0,00%

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x24/s8

x27/s11

x6/t1

x28/t3

x3/gp

x5/t0

x31/t6

x29/t4

x7/t2

x4/tp

x30/t5

0,58%

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x25/s9

x18/s2

x29/t4

x30/t5

x22/s6

x23/s7

x16/a6

x24/s8

x7/t2

x3/gp

x4/tp

1,08%

1,02%

0,82%

0,79%

0,69%

0,65%

0,52%

0,46%

0,03%

0,00%

0,00%

x23/s7

x28/t3

x24/s8

x3/gp

x27/s11

x26/s10

x4/tp

x30/t5

x31/t6

x7/t2

x5/t0

0,56%

0,51%

0,48%

0,44%

0,34%

0,28%

0,25%

0,22%

0,22%

0,03%

0,02%

x3/gp

x6/t1

x26/s10

x29/t4

x25/s9

x23/s7

x31/t6

x30/t5

x5/t0

x7/t2

x4/tp

0,88%

0,87%

0,81%

0,79%

0,70%

0,67%

0,42%

0,33%

0,29%

0,14%

0,00%

x22/s6

x5/t0

x26/s10

x24/s8

x25/s9

x29/t4

x23/s7

x3/gp

x30/t5

x7/t2

x4/tp

0,57% 22

0,54% 23

0,49% 24

0,48% 25

0,47% 26

0,46% 27

0,38% 28

0,32% 29

0,26% 30

0,05% 31

0,02% 32

not

mapped

16,41%