Register analysis results

Static

Register/Mnemonic	sort	gzip	602.gcc_s	605.mcf_s	620.omnetpp_s	631.deepsjeng_s	Sum
x0/zero	20034	28893	560759	24893	131149	28214	793942
x1/ra	5832	8182	362655	6614	129527	7473	520283
x2/sp	13359	17019	288180	15256	168528	17580	519922
x3/gp	997	3	5353	1108	4808	1329	13598
x4/tp	374	535	511	476	726	490	3112
x5/t0	205	319	1952	317	612	402	3807
x6/t1	1190	1549	14236	1570	11551	1919	32015
x7/t2	220	236	1616	251	577	376	3276
x8/s0/fp	9624	17533	207513	11809	102921	12982	362382
x9/s1	5289	7132	158332	6617	63935	7365	248670
x10/a0	13431	17814	371914	15731	158287	18899	596076
x11/a1	6930	9380	178105	8693	73509	10088	286705
x12/a2	6918	9339	157010	8806	44886	10456	237415
x13/a3	9087	13512	189092	12270	40977	14907	279845
x14/a4	14483	25269	391686	18218	76030	22284	547970
x15/a5	27659	57068	758980	34243	192456	40276	1110682
x16/a6	2302	2841	22256	2776	8886	3311	42372
x17/a7	1893	2395	14345	2414	5860	2907	29814
x18/s2	3667	5109	110545	4777	43091	5538	172727
x19/s3	3277	4332	87226	4198	31052	4902	134987
x20/s4	2498	3055	65043	3002	22598	3646	99842
x21/s5	2342	2953	53692	2970	17053	3541	82551
x22/s6	1986	2434	46731	2432	12519	2905	69007
x23/s7	1899	2550	41348	2548	11781	2805	62931
x24/s8	1652	2100	35853	2077	10340	2430	54452
x25/s9	1975	2352	33712	2338	9440	2598	52415
x26/s10	1901	2416	31438	2487	7604	2915	48761
x27/s11	1546	2162	29639	2184	7055	2633	45219
x28/t3	856	1114	6033	1165	2543	1417	13128
x29/t4	530	737	4611	765	1804	1003	9450
x30/t5	376	490	3295	531	1176	635	6503
x31/t6	362	458	2802	466	893	564	5545
Sum	164694	251281	4236463	204002	1394174	238790	6489404

Dynamic

Register/Mnemonic	sort	gzip**	602.gcc_s*	605.mcf_s*	620.omnetpp_s*	631.deepsjeng_s*	Sum
x0/zero	4475899	3764391237	2667856	4655533339	2253566075	4617948989	15298583395
x1/ra	3091181	1089697558	1302509	1433275269	1449301801	2595580782	6572249100
x2/sp	6437556	3075114960	3524710	612594837	3208313247	5135770202	12041755512
x3/gp	18171	2	63299	1634553	122141943	805824664	929682632
x4/tp	9038	5358	19660	1450785	69482177	1886	70968904
x5/t0	16750	12	59607	1296734873	6869180	265287553	1568967975
x6/t1	112897	90	111626	2039293039	192875537	798436994	3030830183
x7/t2	26129	19	25107	13514095	8659547	127994898	150219795
x8/s0/fp	50586780	6770281431	1656653	3335711878	1502419851	2321570646	13982227239
x9/s1	496591	3133091977	1158792	945772455	1008644888	1684675964	6773840667
x10/a0	2339949	1060568609	2218179	3439794463	2811488742	9384481829	16700891771
x11/a1	1845985	401981231	1280316	2211394593	1414676469	2969795360	7000973954
x12/a2	2307888	973621497	1494411	2026670718	1145194695	3843137772	7992426981
x13/a3	17904943	5409101349	2373021	2228862244	1619081322	7669923217	16947246096
x14/a4	47289052	23697520218	3533709	5162987579	2679439841	13743375938	4534146337
x15/a5	96587179	70768342550	6781474	7858201177	4196188034	20213596008	1,0314E+11
x16/a6	340787	19232008	814210	267229524	433003791	1245122456	1965742776
x17/a7	142084	5697	362579	3405503471	326036866	813478122	4545528819
x18/s2	265825	1291861367	899582	519382864	673338494	1601339086	4087087218
x19/s3	261670	291002643	798674	869325759	527360313	1408968797	3097717856
x20/s4	178543	309732441	567204	733050013	317665400	1505645514	2866839115
x21/s5	112318	443292810	413717	1030193544	295170145	1099157121	2868139655
x22/s6	114324	167	383275	351010949	241086676	1066188972	1658784363
x23/s7	75251	191	294237	329881364	153466324	619002563	1102719930
x24/s8	139478	130	196965	233438202	132348603	1042202578	1408325956
x25/s9	198819	498	265820	553569058	171723521	646992246	1372749962
x26/s10	208499	111	232010	617898328	76985265	742883956	1438208169
x27/s11	154361	109	166282	1944110530	92845261	1505513053	3542789596
x28/t3	112771	42	65112	746634836	139986303	906736264	1793535328
x29/t4	74969	35	44532	420397308	197028154	727115400	1344600398
x30/t5	42029	23	19135	405833358	61131591	302942719	769968855
x31/t6	53700	5	55565	1392889704	59913866	382710948	1835623788
Sum	236021416	1,22499E+11	33849828	51083774709	27587433922	91793402497	2,93233E+11

Ranked hitlist — Static

Benchmark	sort	gzip	602.gcc_s	605.mcf_s	620.omnetpp_s	631.deepsjeng_s	Average
1	x15/a5 16,79%	x15/a5 22,71%	x15/a5 17,92%	x15/a5 16,79%	x15/a5 13,80%	x15/a5 16,87%	x15/a5 17,12%
2	x0/zero 12,16%	x0/zero 11,50%	x0/zero 13,24%	x0/zero 12,20%	x2/sp 12,09%	x0/zero 11,82%	x0/zero 12,23%
3	x14/a4 8,79%	x14/a4 10,06%	x14/a4 9,25%	x14/a4 8,93%	x10/a0 11,35%	x14/a4 9,33%	x10/a0 9,19%
4	x10/a0 8,16%	x10/a0 7,09%	x10/a0 8,78%	x10/a0 7,71%	x14/a4 9,41%	x10/a0 7,91%	x14/a4 8,44%
5	x2/sp 8,11%	x8/s0/fp 6,98%	x1/ra 8,56%	x1/ra 7,48%	x2/sp 9,29%	x2/sp 7,36%	x1/ra 8,02%
6	x8/s0/fp 5,84%	x2/sp 6,77%	x2/sp 6,80%	x8/s0/fp 6,01%	x1/ra 7,38%	x2/sp 6,24%	x2/sp 8,01%
7	x13/a3 5,52%	x13/a3 5,38%	x8/s0/fp 4,90%	x14/a4 5,79%	x8/s0/fp 5,45%	x8/s0/fp 5,44%	x8/s0/fp 5,58%
8	x11/a1 4,21%	x11/a1 3,73%	x13/a3 4,46%	x12/a2 4,32%	x11/a1 5,27%	x11/a1 4,38%	x11/a1 4,42%
9	x12/a2 4,20%	x12/a2 3,72%	x11/a1 4,20%	x11/a1 4,26%	x9/s1 4,59%	x13/a3 4,31%	x13/a3 4,31%
10	x1/ra 3,54%	x1/ra 3,26%	x9/s1 3,74%	x9/s1 3,24%	x12/a2 3,22%	x9/s1 3,83%	x9/s1 3,83%
11	x9/s1 3,21%	x9/s1 2,84%	x1/ra 3,71%	x18/s2 3,24%	x18/s2 3,09%	x12/a2 3,66%	x12/a2 3,66%
12	x18/s2 2,23%	x18/s2 2,03%	x12/a2 2,61%	x13/a3 2,34%	x13/a3 2,94%	x18/s2 2,32%	x18/s2 2,66%
13	x19/s3 1,99%	x19/s3 1,72%	x18/s2 2,06%	x19/s3 2,06%	x19/s3 2,23%	x19/s3 2,05%	x19/s3 2,08%
14	x20/s4 1,52%	x20/s4 1,22%	x20/s4 1,54%	x20/s4 1,47%	x20/s4 1,62%	x20/s4 1,53%	x20/s4 1,54%
15	x21/s5 1,42%	x21/s5 1,27%	x21/s5 1,46%	x21/s5 1,22%	x21/s5 1,27%	x21/s5 1,48%	x21/s5 1,27%
16	x16/a6 1,40%	x22/s6 1,13%	x22/s6 1,36%	x16/a6 0,90%	x22/s6 1,06%	x22/s6 1,39%	x22/s6 1,06%
17	x22/s6 1,21%	x23/s7 0,98%	x23/s7 1,25%	x23/s7 0,85%	x23/s7 0,97%	x23/s7 1,22%	x23/s7 0,97%
18	x25/s9 1,20%	x24/s8 0,97%	x6/t1 0,85%	x17/a7 0,83%	x17/a7 1,22%	x16/a6 1,16%	x24/s8 0,98%
19	x26/s10 1,15%	x25/s9 0,80%	x22/s6 0,74%	x25/s9 0,68%	x25/s9 0,81%	x24/s8 1,22%	x16/a6 0,67%
20	x23/s7 1,15%	x26/s10 0,74%	x25/s9 0,70%	x24/s8 0,68%	x26/s10 0,75%	x25/s9 1,17%	x25/s9 0,63%
21	x17/a7 1,15%	x27/s11 0,95%	x24/s8 0,94%	x27/s11 0,70%	x16/a6 0,64%	x27/s11 1,10%	x28/t3 0,61%
22	x24/s8 1,00%	x17/a7 0,86%	x17/a7 0,53%	x24/s8 1,07%	x26/s10 0,55%	x16/a6 0,65%	x22/s6 0,57%
23	x27/s11 0,94%	x24/s8 0,84%	x17/a7 0,34%	x24/s8 1,02%	x27/s11 0,51%	x24/s8 1,02%	x6/t1 0,49%
24	x6/t1 0,72%	x6/t1 0,62%	x6/t1 0,34%	x6/t1 0,77%	x17/a7 0,42%	x17/a7 0,46%	x17/a7 0,46%
25	x3/gp 0,61%	x28/t3 0,44%	x28/t3 0,57%	x3/gp 0,34%	x28/t3 0,18%	x3/gp 0,59%	x3/gp 0,20%
26	x28/t3 0,52%	x29/t4 0,29%	x3/gp 0,13%	x28/t3 0,57%	x3/gp 0,34%	x28/t3 0,56%	x28/t3 0,20%
27	x29/t4 0,32%	x4/tp 0,21%	x29/t4 0,11%	x29/t4 0,37%	x29/t4 0,13%	x4/tp 0,42%	x29/t4 0,15%
28	x30/t5 0,23%	x30/t5 0,20%	x4/tp 0,08%	x30/t5 0,26%	x4/tp 0,08%	x30/t5 0,27%	x30/t5 0,10%
29	x4/tp 0,23%	x31/t6 0,18%	x31/t6 0,07%	x4/tp 0,23%	x31/t6 0,06%	x31/t6 0,24%	x31/t6 0,09%
30	x31/t6 0,22%	x5/t0 0,13%	x5/t0 0,05%	x31/t6 0,23%	x4/tp 0,05%	x5/t0 0,21%	x5/t0 0,06%
31	x7/t2 0,13%	x7/t2 0,09%	x7/t2 0,04%	x5/t0 0,16%	x5/t0 0,04%	x7/t2 0,17%	x7/t2 0,05%
32	x5/t0 0,12%	x3/gp 0,00%	x4/tp 0,01%	x7/t2 0,12%	x7/t2 0,04%	x4/tp 0,16%	x4/tp 0,05%

Ranked hitlist — Dynamic

Benchmark	sort	gzip**	602.gcc_s*	605.mcf_s*	620.omnetpp_s*	631.deepsjeng_s*	Average
1	x15/a5 40,92%	x15/a5 57,77%	x15/a5 20,03%	x15/a5 15,38%	x15/a5 15,21%	x15/a5 22,02%	x15/a5 35,17%
2	x8/s0/fp 21,43%	x14/a4 19,35%	x14/a4 10,44%	x14/a4 10,11%	x2/sp 11,63%	x14/a4 14,97%	x14/a4 15,46%
3	x14/a4 20,04%	x8/s0/fp 5,53%	x2/sp 10,41%	x0/zero 9,11%	x10/a0 10,22%	x13/a3 8,36%	x10/a0 5,78%
4	x13/a3 7,59%	x13/a3 4,42%	x0/zero 7,88%	x10/a0 6,73%	x14/a4 9,71%	x10/a0 8,17%	x13/a3 5,70%
5	x2/sp 2,73%	x0/zero 3,07%	x13/a3 7,01%	x17/a7 6,67%	x0/zero 8,17%	x2/sp 5,59%	x2/sp 5,22%
6	x0/zero 1,90%	x9/s1 2,56%	x10/a0 6,55%	x8/s0/fp 6,53%	x13/a3 5,87%	x0/zero 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 4,11%
8	x10/a0 0,99%	x18/s2 1,05%	x12/a2 4,41%	x1/ra 4,33%	x1/ra 5,25%	x11/a1 3,24%	x12/a2 2,73%
9	x12/a2 0,98%	x1/ra 0,89%	x6/t1 3,85%	x6/t1 3,99%	x11/a1 5,13%	x1/ra 2,83%	x11/a1 2,39%
10	x11/a1 0,78%	x12/a2 0,87%	x11/a1 3,78%	x12/a2 3,97%	x12/a2 4,15%	x8/s0/fp 2,53%	x9/s1 2,31%
11	x9/s1 0,21%	x9/s1 0,79%	x9/s1 3,42%	x27/s11 3,81%	x9/s1 3,66%	x9/s1 1,84%	x1/ra 2,24%
12	x16/a6 0,14%	x21/s5 0,36%	x18/s2 2,66%	x1/ra 2,81%	x18/s2 2,44%	x20/s4 1,64%	x17/a7 1,55%
13	x18/s2 0,11%	x11/a1 0,35%	x16/a6 2,41%	x16/a6 2,73%	x16/a6 1,91%	x18/s2 1,64%	x18/s2 1,39%
14	x19/s3 0,11%	x20/s4 0,25%	x19/s3 2,36%	x5/t0 2,54%	x16/a6 1,57%	x27/s11 1,64%	x27/s11 1,21%
15	x26/s10 0,09%	x16/a6 0,24%	x20/s4 1,68%	x17/a7 2,02%	x19/s3 1,53%	x19/s3 1,53%	x6/t1 1,06%
16	x25/s9 0,08%	x16/a6 0,02%	x21/s5 1,22%	x9/s1 1,85%	x20/s4 1,15%	x16/a6 1,36%	x6/t1 1,03%
17	x20/s4 0,08%	x17/a7 0,00%	x4/tp 0,00%	x19/s3 1,70%	x21/s5 1,07%	x21/s5 1,20%	x5/t0 0,98%
18	x27/s11 0,07%	x4/tp 0,00%	x17/a7 0,00%	x23/s7 0,87%	x22/s6 1,16%	x16/a6 0,98%	x16/a6 0,98%
19	x17/a7 0,06%	x25/s9 0,00%	x23/s7 0,00%	x25/s9 0,79%	x6/t1 0,70%	x29/t4 0,71%	x16/a6 0,63%
20	x23/s7 0,06%	x23/s7 0,00%	x25/s9 0,00%	x6/t1 0,70%	x24/s8 1,14%	x31/t6 0,63%	x31/t6 0,63%
21	x22/s6 0,05%	x22/s6 0,00%	x26/s10 0,00%	x27/s11 0,69%	x2/sp 1,20%	x25/s9 0,62%	x17/a7 0,61%
22	x28/t3 0,05%	x24/s8 0,00%	x24/s8 0,58%	x25/s9 1,08%	x23/s7 0,56%	x22/s6 0,57%
23	x23/s7 0,05%	x26/s10 0,00%	x27/s11 0,49%	x18/s2 1,02%	x28/t3 0,51%	x5/t0 0,54%
24	x21/s5 0,05%	x27/s11 0,00%	x6/t1 0,33%	x29/t4 0,82%	x24/s8 0,48%	x26/s10 0,49%
25	x24/s8 0,05%	x23/s7 0,03%	x28/t3 0,19%	x3/gp 0,79%	x29/t4 0,44%	x29/t4 0,47%
26	x29/t4 0,03%	x28/t3 0,19%	x3/gp 0,00%	x30/t5 0,70%	x29/t4 0,46%	x5/t0 0,47%
27	x31/t6 0,02%	x30/t5 0,00%	x5/t0 0,18%	x26/s10 0,28%	x23/s7 0,67%	x29/t4 0,46%
28	x30/t5 0,02%	x30/t5 0,00%	x16/a6 0,52%	x4/tp 0,25%	x31/t6 0,42%	x23/s7 0,38%
29	x7/t2 0,01%	x29/t4 0,13%	x24/s8 0,46%	x31/t6 0,22%	x3/gp 0,32%
30	x3/gp 0,01%	x5/t0 0,00%	x31/t6 0,07%	x31/t6 0,22%	x5/t0 0,29%	x30/t5 0,26%
31	x5/t0 0,01%	x31/t6 0,00%	x4/tp 0,06%	x3/gp 0,00%	x7/t2 0,03%	x7/t2 0,14%	x31/t6 0,05%
32	x4/tp 0,00%	x3/gp 0,00%	x30/t5 0,06%	x7/t2 0,00%	x5/t0 0,02%	x4/tp 0,00%	x4/tp 0,02%

Dynamic Hits

84,80% mapped

15,20% not mapped