

seq-opt: quality elevators-strips — IPC 2008

no	base	cfdp	co-plan	cpt3	gamer	hsps0	hspsf	mips-xxl	plan-a	upwards	BEST
01	⁴² 1.00	uns.	⁴² 1.00	uns.	⁴² 1.00	⁴² 1.00	⁴² 1.00	⁴² 1.00	—	subopt	42
02	²⁶ 1.00	uns.	²⁶ 1.00	²⁶ 1.00	²⁶ 1.00	²⁶ 1.00	²⁶ 1.00	²⁶ 1.00	—	²⁶ 1.00	26
03	⁵⁵ 1.00	uns.	⁵⁵ 1.00	uns.	⁵⁵ 1.00	⁵⁵ 1.00	⁵⁵ 1.00	uns.	—	subopt	55
04	⁴⁰ 1.00	uns.	uns.	uns.	⁴⁰ 1.00	⁴⁰ 1.00	⁴⁰ 1.00	uns.	—	subopt	40
05	⁵⁵ 1.00	uns.	uns.	uns.	⁵⁵ 1.00	uns.	uns.	uns.	—	subopt	55
06	uns.	uns.	uns.	uns.	⁵³ 1.00	uns.	uns.	uns.	—	subopt	53
07	uns.	uns.	uns.	uns.	⁶² 1.00	uns.	uns.	uns.	—	subopt	62
08	uns.	uns.	uns.	uns.	⁵³ 1.00	uns.	uns.	uns.	—	subopt	53
09	uns.	uns.	uns.	uns.	⁷⁸ 1.00	uns.	uns.	uns.	—	uns.	78
10	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	—	uns.	—
11	⁵⁶ 1.00	uns.	⁵⁶ 1.00	uns.	⁵⁶ 1.00	⁵⁶ 1.00	⁵⁶ 1.00	uns.	—	subopt	56
12	⁵⁴ 1.00	uns.	⁵⁴ 1.00	uns.	⁵⁴ 1.00	⁵⁴ 1.00	⁵⁴ 1.00	uns.	—	subopt	54
13	⁵⁹ 1.00	uns.	uns.	uns.	⁵⁹ 1.00	⁵⁹ 1.00	⁵⁹ 1.00	uns.	—	subopt	59
14	⁶³ 1.00	uns.	uns.	uns.	⁶³ 1.00	uns.	uns.	uns.	—	subopt	63
15	uns.	uns.	uns.	uns.	⁶⁶ 1.00	uns.	uns.	uns.	—	subopt	66
16	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	—	uns.	—
17	uns.	uns.	uns.	uns.	⁷⁸ 1.00	uns.	uns.	uns.	—	subopt	78
18	uns.	uns.	uns.	uns.	⁶¹ 1.00	uns.	uns.	uns.	—	subopt	61
19	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	—	uns.	—
20	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	—	uns.	—
21	⁴⁸ 1.00	uns.	⁴⁸ 1.00	uns.	⁴⁸ 1.00	⁴⁸ 1.00	⁴⁸ 1.00	uns.	—	subopt	48
22	⁵⁴ 1.00	uns.	uns.	uns.	⁵⁴ 1.00	uns.	uns.	uns.	—	subopt	54
23	uns.	uns.	uns.	uns.	⁶⁹ 1.00	uns.	uns.	uns.	—	subopt	69
24	uns.	uns.	uns.	uns.	⁵⁶ 1.00	uns.	uns.	uns.	—	subopt	56
25	uns.	uns.	uns.	uns.	⁶³ 1.00	uns.	uns.	uns.	—	subopt	63
26	uns.	uns.	uns.	uns.	⁴⁸ 1.00	uns.	uns.	uns.	—	⁴⁸ 1.00	48
27	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	—	uns.	—
28	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	—	¹²⁵ 1.00	125
29	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	—	uns.	—
30	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	—	uns.	—
total	11.00	0.00	6.00	1.00	22.00	8.00	8.00	2.00	0.00	0.00	

seq-opt: quality openstacks-adl — IPC 2008

no	base	cfdp	co-plan	cpt3	gamer	hsps0	hspsf	mips-xxl	plan-a	upwards	BEST
01	² 1.00	—	—	—	² 1.00	² 1.00	² 1.00	² 1.00	—	—	2
02	² 1.00	—	—	—	² 1.00	² 1.00	² 1.00	² 1.00	—	—	2
03	² 1.00	—	—	—	² 1.00	² 1.00	² 1.00	² 1.00	—	—	2
04	³ 1.00	—	—	—	³ 1.00	³ 1.00	³ 1.00	³ 1.00	—	—	3
05	⁴ 1.00	—	—	—	⁴ 1.00	⁴ 1.00	⁴ 1.00	⁴ 1.00	—	—	4
06	² 1.00	—	—	—	² 1.00	² 1.00	² 1.00	² 1.00	—	—	2
07	⁵ 1.00	—	—	—	⁵ 1.00	uns.	⁵ 1.00	uns.	—	—	5
08	⁵ 1.00	—	—	—	⁵ 1.00	uns.	⁵ 1.00	uns.	—	—	5
09	³ 1.00	—	—	—	³ 1.00	uns.	³ 1.00	uns.	—	—	3
10	³ 1.00	—	—	—	³ 1.00	uns.	³ 1.00	uns.	—	—	3
11	⁴ 1.00	—	—	—	⁴ 1.00	uns.	⁴ 1.00	uns.	—	—	4
12	³ 1.00	—	—	—	³ 1.00	uns.	³ 1.00	uns.	—	—	3
13	⁴ 1.00	—	—	—	⁴ 1.00	uns.	⁴ 1.00	uns.	—	—	4
14	⁴ 1.00	—	—	—	⁴ 1.00	uns.	⁴ 1.00	uns.	—	—	4
15	uns.	—	—	—	⁴ 1.00	uns.	⁴ 1.00	uns.	—	—	4
16	⁴ 1.00	—	—	—	⁴ 1.00	uns.	⁴ 1.00	uns.	—	—	4
17	uns.	—	—	—	⁴ 1.00	uns.	⁴ 1.00	uns.	—	—	4
18	³ 1.00	—	—	—	³ 1.00	uns.	³ 1.00	uns.	—	—	3
19	uns.	—	—	—	⁴ 1.00	uns.	⁴ 1.00	uns.	—	—	4
20	uns.	—	—	—	uns.	uns.	uns.	uns.	—	—	—
21	uns.	—	—	—	uns.	uns.	³ 1.00	uns.	—	—	3
22	⁴ 1.00	—	—	—	⁴ 1.00	uns.	⁴ 1.00	uns.	—	—	4
23	uns.	—	—	—	uns.	uns.	uns.	uns.	—	—	—
24	uns.	—	—	—	uns.	uns.	uns.	uns.	—	—	—
25	uns.	—	—	—	uns.	uns.	uns.	uns.	—	—	—
26	uns.	—	—	—	uns.	uns.	uns.	uns.	—	—	—
27	uns.	—	—	—	uns.	uns.	uns.	uns.	—	—	—
28	uns.	—	—	—	uns.	uns.	uns.	uns.	—	—	—
29	uns.	—	—	—	uns.	uns.	uns.	uns.	—	—	—
30	uns.	—	—	—	uns.	uns.	uns.	uns.	—	—	—
total	17.00	0.00	0.00	0.00	20.00	6.00	21.00	6.00	0.00	0.00	

seq-opt: quality openstacks-strips — IPC 2008

no	base	cfdp	co-plan	cpt3	gamer	hsps0	hspsf	mips-xxl	plan-a	upwards	BEST
01	² 1.00	² 1.00	² 1.00	² 1.00	² 1.00	² 1.00	² 1.00	² 1.00	² 1.00	² 1.00	2
02	² 1.00	² 1.00	² 1.00	uns.	² 1.00	² 1.00	² 1.00	² 1.00	² 1.00	² 1.00	2
03	² 1.00	² 1.00	² 1.00	uns.	² 1.00	² 1.00	² 1.00	² 1.00	uns.	² 1.00	2
04	³ 1.00	³ 1.00	³ 1.00	uns.	³ 1.00	³ 1.00	³ 1.00	³ 1.00	uns.	³ 1.00	3
05	⁴ 1.00	⁴ 1.00	uns.	uns.	⁴ 1.00	⁴ 1.00	⁴ 1.00	⁴ 1.00	uns.	⁴ 1.00	4
06	² 1.00	² 1.00	uns.	uns.	² 1.00	² 1.00	² 1.00	² 1.00	uns.	subopt	2
07	⁵ 1.00	uns.	uns.	uns.	⁵ 1.00	uns.	⁵ 1.00	uns.	uns.	subopt	5
08	⁵ 1.00	uns.	uns.	uns.	⁵ 1.00	uns.	⁵ 1.00	uns.	uns.	uns.	5
09	³ 1.00	uns.	uns.	uns.	³ 1.00	uns.	³ 1.00	uns.	uns.	uns.	3
10	³ 1.00	uns.	uns.	uns.	³ 1.00	uns.	³ 1.00	uns.	uns.	uns.	3
11	⁴ 1.00	uns.	uns.	uns.	⁴ 1.00	uns.	⁴ 1.00	uns.	uns.	uns.	4
12	³ 1.00	uns.	uns.	uns.	³ 1.00	uns.	³ 1.00	uns.	uns.	uns.	3
13	⁴ 1.00	uns.	uns.	uns.	⁴ 1.00	uns.	⁴ 1.00	uns.	uns.	uns.	4
14	⁴ 1.00	uns.	uns.	uns.	⁴ 1.00	uns.	⁴ 1.00	uns.	uns.	uns.	4
15	⁴ 1.00	uns.	uns.	uns.	⁴ 1.00	uns.	⁴ 1.00	uns.	uns.	uns.	4
16	⁴ 1.00	uns.	uns.	uns.	⁴ 1.00	uns.	⁴ 1.00	uns.	uns.	uns.	4
17	⁴ 1.00	uns.	uns.	uns.	⁴ 1.00	uns.	⁴ 1.00	uns.	uns.	uns.	4
18	³ 1.00	uns.	uns.	uns.	³ 1.00	uns.	³ 1.00	uns.	uns.	uns.	3
19	uns.	uns.	uns.	uns.	uns.	uns.	⁴ 1.00	uns.	uns.	uns.	4
20	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	—
21	uns.	uns.	uns.	uns.	uns.	uns.	³ 1.00	uns.	uns.	uns.	3
22	⁴ 1.00	uns.	uns.	uns.	⁴ 1.00	uns.	⁴ 1.00	uns.	uns.	uns.	4
23	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	—
24	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	—
25	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	—
26	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	—
27	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	—
28	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	—
29	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	—
30	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	—
total	19.00	6.00	4.00	1.00	19.00	6.00	21.00	6.00	2.00	0.00	

seq-opt: quality parcprinter-strips — IPC 2008

no	base	cfdp	co-plan	cpt3	gamer	hsps0	hspsf	mips-xxl	plan-a	upwards	BEST
01	169009 1.00	169009 1.00	169009 1.00	169009 1.00	uns.	169009 1.00	169009 1.00	169009 1.00	uns.	subopt	169009
02	438047 1.00	uns.	438047 1.00	438047 1.00	uns.	438047 1.00	438047 1.00	438047 1.00	uns.	subopt	438047
03	807114 1.00	uns.	807114 1.00	807114 1.00	uns.	807114 1.00	807114 1.00	807114 1.00	uns.	807114 1.00	807114
04	876094 1.00	uns.	uns.	876094 1.00	uns.	876094 1.00	876094 1.00	uns.	uns.	subopt	876094
05	uns.	uns.	uns.	1145130 1.00	uns.	1145130 1.00	1145130 1.00	uns.	uns.	subopt	1145130
06	uns.	uns.	uns.	1514200 1.00	uns.	1514200 1.00	1514200 1.00	uns.	uns.	subopt	1514200
07	uns.	uns.	uns.	1383120 1.00	uns.	uns.	uns.	uns.	uns.	subopt	1383120
08	uns.	uns.	uns.	1852220 1.00	uns.	uns.	uns.	uns.	uns.	subopt	1852220
09	uns.	uns.	uns.	2121260 1.00	uns.	uns.	uns.	uns.	uns.	subopt	2121260
10	uns.	uns.	uns.	2490320 1.00	uns.	uns.	uns.	uns.	uns.	subopt	2490320
11	182808 1.00	182808 1.00	uns.	182808 1.00	uns.	182808 1.00	182808 1.00	182808 1.00	uns.	182808 1.00	182808
12	510256 1.00	uns.	uns.	510256 1.00	uns.	510256 1.00	510256 1.00	510256 1.00	uns.	subopt	510256
13	693064 1.00	uns.	uns.	uns.	uns.	693064 1.00	693064 1.00	uns.	uns.	subopt	693064
14	uns.	uns.	uns.	uns.	uns.	uns.	1020510 1.00	uns.	uns.	subopt	1020510
15	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	subopt	1695510
16	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	subopt	1675410
17	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	subopt	1713580
18	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	subopt	2330300
19	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	subopt	3353260
20	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	subopt	2754190
21	143411 1.00	143411 1.00	143411 1.00	143411 1.00	uns.	143411 1.00	143411 1.00	143411 1.00	uns.	subopt	143411
22	375821 1.00	uns.	375821 1.00	375821 1.00	uns.	375821 1.00	375821 1.00	375821 1.00	uns.	subopt	375821
23	519232 1.00	uns.	uns.	519232 1.00	uns.	519232 1.00	519232 1.00	uns.	uns.	subopt	519232
24	uns.	uns.	uns.	751642 1.00	uns.	751642 1.00	751642 1.00	uns.	uns.	subopt	751642
25	uns.	uns.	uns.	uns.	uns.	1215840 1.00	1215840 1.00	uns.	uns.	subopt	1215840
26	uns.	uns.	uns.	1216460 1.00	uns.	uns.	1216460 1.00	uns.	uns.	subopt	1216460
27	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	subopt	1270870
28	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	subopt	1681280
29	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	subopt	2377260
30	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	subopt	2021890
total	10.00	3.00	5.00	17.00	0.00	14.00	16.00	7.00	0.00	0.00	

seq-opt: quality pegsol-strips — IPC 2008

no	base	cfdp	co-plan	cpt3	gamer	hsps0	hspsf	mips-xxl	plan-a	upwards	BEST
01	² 1.00	² 1.00	² 1.00	² 1.00	² 1.00	² 1.00	² 1.00	² 1.00	² 1.00	² 1.00	2
02	⁵ 1.00	⁵ 1.00	⁵ 1.00	⁵ 1.00	⁵ 1.00	⁵ 1.00	⁵ 1.00	⁵ 1.00	⁵ 1.00	⁵ 1.00	5
03	⁴ 1.00	⁴ 1.00	⁴ 1.00	⁴ 1.00	⁴ 1.00	⁴ 1.00	⁴ 1.00	⁴ 1.00	⁴ 1.00	⁴ 1.00	4
04	⁴ 1.00	⁴ 1.00	⁴ 1.00	⁴ 1.00	⁴ 1.00	⁴ 1.00	⁴ 1.00	⁴ 1.00	⁴ 1.00	⁴ 1.00	4
05	⁴ 1.00	⁴ 1.00	⁴ 1.00	⁴ 1.00	⁴ 1.00	⁴ 1.00	⁴ 1.00	⁴ 1.00	⁴ 1.00	⁴ 1.00	4
06	⁴ 1.00	⁴ 1.00	⁴ 1.00	⁴ 1.00	⁴ 1.00	⁴ 1.00	⁴ 1.00	⁴ 1.00	⁴ 1.00	⁴ 1.00	4
07	³ 1.00	³ 1.00	³ 1.00	³ 1.00	³ 1.00	³ 1.00	³ 1.00	³ 1.00	³ 1.00	³ 1.00	3
08	⁶ 1.00	uns.	⁶ 1.00	⁶ 1.00	⁶ 1.00	⁶ 1.00	⁶ 1.00	⁶ 1.00	⁶ 1.00	⁶ 1.00	6
09	⁵ 1.00	⁵ 1.00	⁵ 1.00	⁵ 1.00	⁵ 1.00	⁵ 1.00	⁵ 1.00	⁵ 1.00	⁵ 1.00	⁵ 1.00	5
10	⁶ 1.00	uns.	⁶ 1.00	uns.	⁶ 1.00	⁶ 1.00	⁶ 1.00	⁶ 1.00	⁶ 1.00	⁶ 1.00	6
11	⁷ 1.00	uns.	⁷ 1.00	⁷ 1.00	⁷ 1.00	⁷ 1.00	⁷ 1.00	⁷ 1.00	⁷ 1.00	⁷ 1.00	7
12	⁸ 1.00	uns.	⁸ 1.00	uns.	⁸ 1.00	⁸ 1.00	⁸ 1.00	⁸ 1.00	⁸ 1.00	⁸ 1.00	8
13	⁹ 1.00	uns.	⁹ 1.00	uns.	⁹ 1.00	⁹ 1.00	⁹ 1.00	⁹ 1.00	uns.	⁹ 1.00	9
14	⁷ 1.00	uns.	⁷ 1.00	uns.	⁷ 1.00	⁷ 1.00	⁷ 1.00	⁷ 1.00	uns.	⁷ 1.00	7
15	⁸ 1.00	uns.	⁸ 1.00	uns.	⁸ 1.00	uns.	⁸ 1.00	⁸ 1.00	uns.	⁸ 1.00	8
16	⁸ 1.00	uns.	⁸ 1.00	uns.	⁸ 1.00	⁸ 1.00	⁸ 1.00	⁸ 1.00	uns.	⁸ 1.00	8
17	¹⁰ 1.00	uns.	¹⁰ 1.00	uns.	¹⁰ 1.00	uns.	¹⁰ 1.00	¹⁰ 1.00	uns.	¹⁰ 1.00	10
18	⁷ 1.00	uns.	⁷ 1.00	uns.	⁷ 1.00	⁷ 1.00	⁷ 1.00	⁷ 1.00	uns.	⁷ 1.00	7
19	⁸ 1.00	uns.	⁸ 1.00	uns.	⁸ 1.00	⁸ 1.00	⁸ 1.00	⁸ 1.00	uns.	⁸ 1.00	8
20	⁷ 1.00	uns.	⁷ 1.00	uns.	⁷ 1.00	⁷ 1.00	⁷ 1.00	⁷ 1.00	uns.	⁷ 1.00	7
21	⁸ 1.00	uns.	⁸ 1.00	uns.	⁸ 1.00	uns.	⁸ 1.00	⁸ 1.00	uns.	⁸ 1.00	8
22	⁶ 1.00	uns.	⁶ 1.00	uns.	⁶ 1.00	⁶ 1.00	⁶ 1.00	⁶ 1.00	uns.	⁶ 1.00	6
23	⁸ 1.00	uns.	⁸ 1.00	uns.	uns.	uns.	⁸ 1.00	⁸ 1.00	uns.	⁸ 1.00	8
24	⁸ 1.00	uns.	⁸ 1.00	uns.	uns.	uns.	⁸ 1.00	uns.	uns.	⁸ 1.00	8
25	⁸ 1.00	uns.	⁸ 1.00	uns.	uns.	⁸ 1.00	⁸ 1.00	⁸ 1.00	uns.	⁸ 1.00	8
26	⁹ 1.00	uns.	uns.	uns.	uns.	uns.	⁹ 1.00	uns.	uns.	uns.	9
27	⁷ 1.00	uns.	uns.	uns.	uns.	⁷ 1.00	⁷ 1.00	uns.	uns.	uns.	7
28	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	16
29	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	14
30	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	25
total	27.00	8.00	25.00	10.00	22.00	21.00	27.00	24.00	12.00	25.00	

seq-opt: quality scanalyzer-strips — IPC 2008

no	base	cfdp	co-plan	cpt3	gamer	hsps0	hspsf	mips-xxl	plan-a	upwards	BEST
01	¹⁸ 1.00	uns.	¹⁸ 1.00	uns.	¹⁸ 1.00	¹⁸ 1.00	¹⁸ 1.00	¹⁸ 1.00	¹⁸ 1.00	¹⁸ 1.00	18
02	²² 1.00	uns.	²² 1.00	uns.	²² 1.00	²² 1.00	²² 1.00	²² 1.00	subopt	²² 1.00	22
03	²⁶ 1.00	uns.	²⁶ 1.00	uns.	²⁶ 1.00	²⁶ 1.00	²⁶ 1.00	²⁶ 1.00	subopt	²⁶ 1.00	26
04	²⁴ 1.00	uns.	uns.	uns.	²⁴ 1.00	²⁴ 1.00	uns.	uns.	²⁴ 1.00	²⁴ 1.00	24
05	³⁰ 1.00	uns.	uns.	uns.	³⁰ 1.00	uns.	uns.	uns.	subopt	³⁰ 1.00	30
06	³⁶ 1.00	uns.	uns.	uns.	³⁶ 1.00	uns.	uns.	uns.	subopt	uns.	36
07	uns.	uns.	uns.	uns.	uns.	³⁰ 1.00	uns.	uns.	³⁰ 1.00	³⁰ 1.00	30
08	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	38
09	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	subopt	uns.	46
10	uns.	uns.	uns.	uns.	uns.	³⁶ 1.00	uns.	uns.	³⁶ 1.00	uns.	36
11	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	46
12	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	56
13	uns.	uns.	uns.	uns.	uns.	⁴² 1.00	uns.	uns.	⁴² 1.00	uns.	42
14	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	54
15	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	66
16	uns.	uns.	uns.	uns.	uns.	⁴⁸ 1.00	uns.	uns.	⁴⁸ 1.00	uns.	48
17	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	62
18	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	76
19	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	⁵⁴ 1.00	⁵⁴ 1.00	54
20	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	70
21	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	86
22	¹³ 1.00	¹³ 1.00	¹³ 1.00	¹³ 1.00	¹³ 1.00	¹³ 1.00	¹³ 1.00	¹³ 1.00	¹³ 1.00	subopt	13
23	¹³ 1.00	¹³ 1.00	¹³ 1.00	¹³ 1.00	¹³ 1.00	¹³ 1.00	¹³ 1.00	¹³ 1.00	¹³ 1.00	subopt	13
24	¹³ 1.00	¹³ 1.00	¹³ 1.00	¹³ 1.00	¹³ 1.00	¹³ 1.00	¹³ 1.00	¹³ 1.00	¹³ 1.00	subopt	13
25	²⁶ 1.00	uns.	uns.	uns.	uns.	uns.	uns.	uns.	²⁶ 1.00	subopt	26
26	³⁰ 1.00	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	subopt	30
27	³⁴ 1.00	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	subopt	34
28	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	39
29	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	47
30	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	55
total	12.00	3.00	6.00	3.00	9.00	11.00	6.00	6.00	0.00	0.00	

seq-opt: quality sokoban-strips — IPC 2008

no	base	cfdp	co-plan	cpt3	gamer	hsps0	hspsf	mips-xxl	plan-a	upwards	BEST
01	¹¹ 1.00	uns.	¹¹ 1.00	uns.	¹¹ 1.00	¹¹ 1.00	¹¹ 1.00	¹¹ 1.00	¹¹ 1.00	¹¹ 1.00	11
02	⁹ 1.00	uns.	⁹ 1.00	⁹ 1.00	⁹ 1.00	⁹ 1.00	⁹ 1.00	⁹ 1.00	⁹ 1.00	⁹ 1.00	9
03	¹⁰ 1.00	uns.	¹⁰ 1.00	¹⁰ 1.00	¹⁰ 1.00	¹⁰ 1.00	¹⁰ 1.00	¹⁰ 1.00	¹⁰ 1.00	¹⁰ 1.00	10
04	²⁹ 1.00	uns.	²⁹ 1.00	uns.	²⁹ 1.00	uns.	²⁹ 1.00	uns.	uns.	²⁹ 1.00	29
05	⁸ 1.00	uns.	uns.	⁸ 1.00	⁸ 1.00	uns.	⁸ 1.00	uns.	uns.	uns.	8
06	⁹ 1.00	uns.	⁹ 1.00	uns.	⁹ 1.00	⁹ 1.00	⁹ 1.00	⁹ 1.00	uns.	⁹ 1.00	9
07	¹⁵ 1.00	uns.	¹⁵ 1.00	uns.	¹⁵ 1.00	uns.	¹⁵ 1.00	uns.	uns.	subopt	15
08	³¹ 1.00	uns.	uns.	uns.	³¹ 1.00	uns.	uns.	uns.	uns.	uns.	31
09	¹⁹ 1.00	uns.	¹⁹ 1.00	uns.	¹⁹ 1.00	uns.	¹⁹ 1.00	uns.	uns.	uns.	19
10	³⁰ 1.00	uns.	³⁰ 1.00	uns.	³⁰ 1.00	uns.	³⁰ 1.00	uns.	uns.	uns.	30
11	³⁵ 1.00	uns.	³⁵ 1.00	uns.	³⁵ 1.00	uns.	³⁵ 1.00	uns.	uns.	uns.	35
12	³² 1.00	uns.	uns.	uns.	³² 1.00	uns.	uns.	uns.	uns.	uns.	32
13	²⁰ 1.00	uns.	uns.	uns.	²⁰ 1.00	uns.	²⁰ 1.00	uns.	uns.	uns.	20
14	²⁹ 1.00	uns.	²⁹ 1.00	uns.	²⁹ 1.00	uns.	²⁹ 1.00	²⁹ 1.00	uns.	²⁹ 1.00	29
15	uns.	uns.	uns.	uns.	⁷⁶ 1.00	uns.	uns.	uns.	uns.	uns.	76
16	⁵⁰ 1.00	uns.	⁵⁰ 1.00	uns.	⁵⁰ 1.00	uns.	⁵⁰ 1.00	uns.	uns.	uns.	50
17	³⁷ 1.00	uns.	³⁷ 1.00	uns.	³⁷ 1.00	uns.	³⁷ 1.00	³⁷ 1.00	uns.	³⁷ 1.00	37
18	⁴⁹ 1.00	uns.	uns.	uns.	⁴⁹ 1.00	uns.	uns.	uns.	uns.	uns.	49
19	⁴⁷ 1.00	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	47
20	² 1.00	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	² 1.00	2
21	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	—
22	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	—
23	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	—
24	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	—
25	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	—
26	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	—
27	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	—
28	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	—
29	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	—
30	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	—
total	19.00	0.00	12.00	3.00	18.00	4.00	14.00	6.00	3.00	0.00	

seq-opt: quality transport-strips — IPC 2008

no	base	cfdp	co-plan	cpt3	gamer	hsps0	hspsf	mips-xxl	plan-a	upwards	BEST
01	⁵⁴ 1.00	uns.	⁵⁴ 1.00	⁵⁴ 1.00	⁵⁴ 1.00	⁵⁴ 1.00	⁵⁴ 1.00	⁵⁴ 1.00	—	⁵⁴ 1.00	54
02	¹³¹ 1.00	uns.	¹³¹ 1.00	¹³¹ 1.00	¹³¹ 1.00	¹³¹ 1.00	¹³¹ 1.00	¹³¹ 1.00	—	¹³¹ 1.00	131
03	²⁵⁰ 1.00	uns.	²⁵⁰ 1.00	uns.	²⁵⁰ 1.00	²⁵⁰ 1.00	²⁵⁰ 1.00	uns.	—	²⁵⁰ 1.00	250
04	³¹⁸ 1.00	uns.	uns.	uns.	³¹⁸ 1.00	uns.	uns.	uns.	—	invalid	318
05	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	—	uns.	—
06	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	—	uns.	—
07	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	—	uns.	—
08	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	—	uns.	—
09	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	—	uns.	—
10	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	—	uns.	—
11	⁴⁵⁶ 1.00	uns.	⁴⁵⁶ 1.00	⁴⁵⁶ 1.00	⁴⁵⁶ 1.00	⁴⁵⁶ 1.00	⁴⁵⁶ 1.00	⁴⁵⁶ 1.00	—	⁴⁵⁶ 1.00	456
12	⁵⁹⁴ 1.00	uns.	⁵⁹⁴ 1.00	uns.	⁵⁹⁴ 1.00	⁵⁹⁴ 1.00	⁵⁹⁴ 1.00	⁵⁹⁴ 1.00	—	subopt	594
13	⁵⁵⁰ 1.00	uns.	uns.	uns.	⁵⁵⁰ 1.00	⁵⁵⁰ 1.00	⁵⁵⁰ 1.00	uns.	—	subopt	550
14	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	—	uns.	—
15	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	—	uns.	—
16	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	—	uns.	—
17	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	—	uns.	—
18	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	—	uns.	—
19	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	—	uns.	—
20	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	—	uns.	—
21	⁴⁷⁸ 1.00	uns.	⁴⁷⁸ 1.00	uns.	⁴⁷⁸ 1.00	⁴⁷⁸ 1.00	⁴⁷⁸ 1.00	⁴⁷⁸ 1.00	—	⁴⁷⁸ 1.00	478
22	⁶³² 1.00	uns.	⁶³² 1.00	uns.	⁶³² 1.00	⁶³² 1.00	⁶³² 1.00	⁶³² 1.00	—	⁶³² 1.00	632
23	⁶³⁰ 1.00	uns.	⁶³⁰ 1.00	uns.	⁶³⁰ 1.00	⁶³⁰ 1.00	⁶³⁰ 1.00	uns.	—	⁶³⁰ 1.00	630
24	⁶¹⁴ 1.00	uns.	uns.	uns.	⁶¹⁴ 1.00	uns.	⁶¹⁴ 1.00	uns.	—	uns.	614
25	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	—	uns.	—
26	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	—	uns.	—
27	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	—	uns.	—
28	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	—	uns.	—
29	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	—	uns.	—
30	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	—	uns.	—
total	11.00	0.00	8.00	3.00	11.00	9.00	10.00	6.00	0.00	0.00	

seq-opt: quality woodworking-strips — IPC 2008

no	base	cfdp	co-plan	cpt3	gamer	hsps0	hspsf	mips-xxl	plan-a	upwards	BEST
01	¹⁷⁰ 1.00	¹⁷⁰ 1.00	¹⁷⁰ 1.00	¹⁷⁰ 1.00	¹⁷⁰ 1.00	¹⁷⁰ 1.00	¹⁷⁰ 1.00	¹⁷⁰ 1.00	—	subopt	170
02	¹⁸⁵ 1.00	¹⁸⁵ 1.00	¹⁸⁵ 1.00	¹⁸⁵ 1.00	¹⁸⁵ 1.00	¹⁸⁵ 1.00	¹⁸⁵ 1.00	¹⁸⁵ 1.00	—	subopt	185
03	uns.	uns.	uns.	uns.	²⁷⁵ 1.00	²⁷⁵ 1.00	²⁷⁵ 1.00	uns.	—	subopt	275
04	uns.	uns.	uns.	uns.	²⁸⁰ 1.00	uns.	uns.	uns.	—	subopt	280
05	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	—	³³⁰ 1.00	330
06	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	—	⁵²⁰ 1.00	520
07	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	—	⁴⁸⁵ 1.00	485
08	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	—	⁵¹⁰ 1.00	510
09	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	—	uns.	—
10	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	—	⁷³⁵ 1.00	735
11	¹³⁰ 1.00	¹³⁰ 1.00	¹³⁰ 1.00	¹³⁰ 1.00	¹³⁰ 1.00	¹³⁰ 1.00	¹³⁰ 1.00	¹³⁰ 1.00	—	invalid	130
12	²²⁵ 1.00	uns.	uns.	²²⁵ 1.00	²²⁵ 1.00	²²⁵ 1.00	²²⁵ 1.00	uns.	—	invalid	225
13	uns.	uns.	uns.	²¹⁵ 1.00	²¹⁵ 1.00	²¹⁵ 1.00	²¹⁵ 1.00	uns.	—	subopt	215
14	uns.	uns.	uns.	uns.	²²⁵ 1.00	uns.	uns.	uns.	—	subopt	225
15	uns.	uns.	uns.	uns.	²⁷⁰ 1.00	uns.	uns.	uns.	—	subopt	270
16	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	—	³⁵⁵ 1.00	355
17	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	—	⁴²⁵ 1.00	425
18	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	—	⁵⁵⁰ 1.00	550
19	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	—	uns.	—
20	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	—	uns.	—
21	⁹⁵ 1.00	⁹⁵ 1.00	⁹⁵ 1.00	⁹⁵ 1.00	⁹⁵ 1.00	⁹⁵ 1.00	⁹⁵ 1.00	⁹⁵ 1.00	—	invalid	95
22	¹⁸⁵ 1.00	uns.	¹⁸⁵ 1.00	¹⁸⁵ 1.00	¹⁸⁵ 1.00	¹⁸⁵ 1.00	¹⁸⁵ 1.00	¹⁸⁵ 1.00	—	subopt	185
23	¹⁹⁵ 1.00	uns.	uns.	¹⁹⁵ 1.00	¹⁹⁵ 1.00	¹⁹⁵ 1.00	¹⁹⁵ 1.00	uns.	—	invalid	195
24	uns.	uns.	uns.	uns.	²⁴⁵ 1.00	uns.	uns.	uns.	—	subopt	245
25	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	—	⁵³⁵ 1.00	535
26	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	—	³⁴⁵ 1.00	345
27	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	—	⁴⁷⁰ 1.00	470
28	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	—	⁶⁷⁵ 1.00	675
29	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	—	⁶⁷⁵ 1.00	675
30	uns.	uns.	uns.	uns.	uns.	uns.	uns.	uns.	—	⁸²⁰ 1.00	820
total	7.00	4.00	5.00	8.00	13.00	9.00	9.00	5.00	0.00	0.00	

seq-opt: quality overall — IPC 2008

formulation	base	cfdp	co-plan	cpt3	gamer	hsps0	hspsf	mips-xxl	plan-a	upwards
elevators-strips	11.00	0.00	6.00	1.00	22.00	8.00	8.00	2.00	—	0.00
openstacks-adl	(17.00)	—	—	—	20.00	6.00	21.00	6.00	—	—
openstacks-strips	19.00	6.00	4.00	1.00	(19.00)	(6.00)	(21.00)	(6.00)	2.00	0.00
parcprinter-strips	10.00	3.00	5.00	17.00	0.00	14.00	16.00	7.00	0.00	0.00
pegsol-strips	27.00	8.00	25.00	10.00	22.00	21.00	27.00	24.00	12.00	25.00
scanalyzer-strips	12.00	3.00	6.00	3.00	9.00	11.00	6.00	6.00	0.00	0.00
sokoban-strips	19.00	0.00	12.00	3.00	18.00	4.00	14.00	6.00	3.00	0.00
transport-strips	11.00	0.00	8.00	3.00	11.00	9.00	10.00	6.00	—	0.00
woodworking-strips	7.00	4.00	5.00	8.00	13.00	9.00	9.00	5.00	—	0.00
overall	116.00	24.00	71.00	46.00	115.00	82.00	111.00	62.00	17.00	25.00