Table 1: Results (MBit/s) [heur_time: 180,226s] [cplex absmip-gap=0.1]

Instance	best known	heur value	rel_gap	abs_gap	cplex time
CPP seed0 pod4 C20 newR3 oldR0	0	0		0	-6000000000000000000000000000000000000
CPP seed1 pod4 C20 newR3 oldR0	46,227	46,227	-0	-0	80,674
CPP seed2 pod4 C20 newR3 oldR0	18,245	18,245	-0	-0	192,916
CPP seed3 pod4 C20 newR3 oldR0	0	-0		-0	24,866
CPP seed4 pod4 C20 newR3 oldR0	225,946	255,068	0,129	29,123	3600,221
CPP seed5 pod4 C20 newR3 oldR0	23,472	23,472	-0	-0	23,514
CPP seed6 pod4 C20 newR3 oldR0	0	-0	-	-0	25,341
CPP seed7 pod4 C20 newR3 oldR0	0	0	-	0	15,83
CPP seed8 pod4 C20 newR3 oldR0	43,384	43,384	-0	-0	68,254
CPP seed9 pod4 C20 newR3 oldR0	0	0	_	0	13,959
CPP seed10 pod4 C20 newR3 oldR0	0	0	_	0	1,477
CPP seed11 pod4 C20 newR3 oldR0	6,675	6,675	-0	-0	46,704
CPP seed12 pod4 C20 newR3 oldR0	0	0	_	0	16,124
CPP seed13 pod4 C20 newR3 oldR0	0	-0	_	-0	13,51
CPP seed14 pod4 C20 newR3 oldR0	9,818	9,818	-0	-0	45,152
CPP seed15 pod4 C20 newR3 oldR0	32,102	32,102	-0	-0	150,876
CPP seed16 pod4 C20 newR3 oldR0	0	21,6	_	21,6	12,509
CPP seed17 pod4 C20 newR3 oldR0	0	-0	_	-0	32,721
CPP seed18 pod4 C20 newR3 oldR0	204,326	204,326	-0	-0	68,894
CPP seed19 pod4 C20 newR3 oldR0	0	0	_	0	25,695
CPP seed20 pod4 C20 newR3 oldR0	6,874	6,874	-0	-0	40,189
CPP seed21 pod4 C20 newR3 oldR0	67,103	67,103	-0	-0	71,458
CPP_seed22_pod4_C20_newR3_oldR0	0	0	-	0	19,035
CPP seed23 pod4 C20 newR3 oldR0	15,782	15,782	-0	-0	82,633
CPP seed24 pod4 C20 newR3 oldR0	26,373	26,373	-0	-0	247,269
CPP seed26 pod4 C20 newR1 oldR5	47,351	47,351	0	0	208,436
CPP seed27 pod4 C20 newR1 oldR5	288,338	288,338	-0	-0	14,964
CPP_seed28_pod4_C20_newR1_oldR5	210,358	210,358	-0	-0	46,712
CPP_seed29_pod4_C20_newR1_oldR5	15,324	15,324	-0	-0	4,875
CPP_seed30_pod4_C20_newR1_oldR5	587,559	587,559	-0	-0	11,313
CPP_seed31_pod4_C20_newR1_oldR5	62,535	62,535	-0	-0	52,673
$\overline{\text{CPP_seed32_pod4_C20_newR1_oldR5}}$	38,259	38,259	-0	-0	4,148
$\overline{\text{CPP_seed33_pod4_C20_newR1_oldR5}}$	196,353	196,353	-0	-0	10,573
$\overline{\text{CPP_seed34_pod4_C20_newR1_oldR5}}$	184,83	184,83	0	0	21,762
$\overline{\text{CPP_seed35_pod4_C20_newR1_oldR5}}$	326,302	326,302	-0	-0	7,035
$\overline{\text{CPP_seed36_pod4_C20_newR1_oldR5}}$	1244,05	1244,05	-0	-0	76,43
$\overline{\text{CPP_seed37_pod4_C20_newR1_oldR5}}$	700,665	700,665	-0	-0	47,495
$\overline{\text{CPP_seed38_pod4_C20_newR1_oldR5}}$	626,514	626,514	-0	-0	5,517
$\begin{array}{c} \text{CPP_seed39_pod4_C20_newR1_oldR5} \end{array}$	12,672	12,672	-0	-0	16,199
$CPP_seed40_pod4_C20_newR1_oldR5$	$592,\!235$	$552,\!19$	-0,068	-40,045	3600,188
$\overline{\text{CPP_seed41_pod4_C20_newR1_oldR5}}$	565,503	565,503	-0	-0	2,342
$- CPP_seed 42_pod 4_C 20_newR 1_oldR 5$	571,971	571,971	-0	-0	446,42
$CPP_seed43_pod4_C20_newR1_oldR5$	0	-0	-	-0	10,024

$CPP_seed44_pod4_C20_newR1_oldR5$	135,779	135,779	-0	-0	29,392
$CPP_seed45_pod4_C20_newR1_oldR5$	$948,\!267$	$948,\!267$	-0	-0	$5,\!536$
$CPP_seed46_pod4_C20_newR1_oldR5$	$100,\!534$	$100,\!534$	-0	-0	3,796
${ m CPP_seed47_pod4_C20_newR1_oldR5}$	$190,\!676$	190,676	-0	-0	$3,\!329$
$CPP_seed48_pod4_C20_newR1_oldR5$	$192,\!599$	$192,\!599$	-0	-0	34,391
$CPP_seed49_pod4_C20_newR1_oldR5$	76,105	76,105	-0	-0	8,144
${ m CPP_seed50_pod4_C20_newR1_oldR5}$	107,331	107,331	-0	-0	31,933
$CPP_seed51_pod4_C30_newR4_oldR0$	0	-0	-	-0	28,787
$CPP_seed52_pod4_C30_newR4_oldR0$	161,237	128,419	-0,204	-32,818	$3600,\!324$
$CPP_seed53_pod4_C30_newR4_oldR0$	17,132	17,132	-0	-0	3017,061
$\overline{\text{CPP_seed54_pod4_C30_newR4_oldR0}}$	70,242	69,692	-0,008	-0,55	$3600,\!323$
$CPP_seed55_pod4_C30_newR4_oldR0$	43,444	43,444	-0	-0	2632,749
$CPP_seed56_pod4_C30_newR4_oldR0$	0	-0	-	-0	25,926
$CPP_seed57_pod4_C30_newR4_oldR0$	67,258	67,258	-0	-0	221,062
$\overline{\text{CPP_seed58_pod4_C30_newR4_oldR0}}$	0	-0	-	-0	14,425
$\overline{\text{CPP_seed59_pod4_C30_newR4_oldR0}}$	0	-0	-	-0	20,463
$\overline{\text{CPP_seed60_pod4_C30_newR4_oldR0}}$	1199,9	1199,9	-0	-0	3600,286
$\overline{\text{CPP_seed61_pod4_C30_newR4_oldR0}}$	18,462	18,462	-0	-0	3063,417
$\overline{\text{CPP_seed62_pod4_C30_newR4_oldR0}}$	14,669	14,669	-0	-0	231,651
$\overline{\text{CPP_seed63_pod4_C30_newR4_oldR0}}$	0	14,957	-	14,957	23,833
$\overline{\text{CPP_seed64_pod4_C30_newR4_oldR0}}$	26,392	26,392	-0	-0	777,64
$\overline{\text{CPP_seed65_pod4_C30_newR4_oldR0}}$	31,67	31,67	-0	-0	161,847
$\overline{\text{CPP_seed66_pod4_C30_newR4_oldR0}}$	32,63	32,63	-0	-0	3600,306
$\overline{\text{CPP_seed67_pod4_C30_newR4_oldR0}}$	302,006	302,006	-0	-0	2474,024
$\overline{\text{CPP_seed68_pod4_C30_newR4_oldR0}}$	73,891	73,891	-0	-0	319,21
$\overline{\text{CPP_seed69_pod4_C30_newR4_oldR0}}$	224,995	125,862	-0,441	-99,133	499,03
$\overline{\text{CPP_seed70_pod4_C30_newR4_oldR0}}$	12,649	12,649	-0	-0	$1306,\!355$
$\overline{\text{CPP_seed71_pod4_C30_newR4_oldR0}}$	0	-0	-	-0	16,701
$\overline{\text{CPP_seed72_pod4_C30_newR4_oldR0}}$	25,368	25,368	-0	-0	$1205,\!25$
$\overline{\text{CPP_seed73_pod4_C30_newR4_oldR0}}$	118,141	111,119	-0,059	-7,022	3600,37
$\overline{\text{CPP_seed74_pod4_C30_newR4_oldR0}}$	11,421	15,396	0,348	3,974	893,58
$\overline{\text{CPP_seed75_pod4_C30_newR4_oldR0}}$	170,716	170,716	-0	-0	3600,26
$\overline{\text{CPP_seed76_pod4_C30_newR2_oldR4}}$	549,007	549,007	-0	-0	11,901
$\overline{\text{CPP_seed77_pod4_C30_newR2_oldR4}}$	473,081	473,081	-0	-0	44,598
$\overline{\text{CPP_seed78_pod4_C30_newR2_oldR4}}$	578,128	578,128	-0	-0	39,93
$\overline{\text{CPP_seed79_pod4_C30_newR2_oldR4}}$	70,93	70,93	-0	-0	107,531
$\overline{\text{CPP_seed80_pod4_C30_newR2_oldR4}}$	149,706	149,706	-0	-0	28,033
$\overline{\text{CPP_seed81_pod4_C30_newR2_oldR4}}$	1269,909	1269,909	-0	-0	28,244
$\overline{\text{CPP_seed82_pod4_C30_newR2_oldR4}}$	117,545	96,525	-0,179	-21,02	3600,417
$\overline{\text{CPP_seed83_pod4_C30_newR2_oldR4}}$	566,978	566,978	-0	-0	1027,762
$\overline{\text{CPP_seed84_pod4_C30_newR2_oldR4}}$	145,741	145,105	-0,004	-0,636	3600,303
$\frac{\text{CPP_seed85_pod4_C30_newR2_oldR4}}{\text{CPP_seed85_pod4_C30_newR2_oldR4}}$	132,686	132,686	-0	-0	81,323
$\frac{\text{CPP_seed86_pod4_C30_newR2_oldR4}}{\text{CPP_seed86_pod4_C30_newR2_oldR4}}$	94,173	94,173	-0	-0	6,294
$\frac{\text{CPP_seed87_pod4_C30_newR2_oldR4}}{\text{CPP_seed87_pod4_C30_newR2_oldR4}}$	67,17	67,17	-0	-0	48,522
$\overline{\text{CPP_seed88_pod4_C30_newR2_oldR4}}$	413,095	410,363	-0,007	-2,732	3600,352
$CPP_seed89_pod4_C30_newR2_oldR4$	264,821	264,821	-0	-0	26,241

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CPP_seed90_pod4_C30_newR2_oldR4	55,742	55,742	-0	-0	53,37
CPP_seed91_pod4_C30_newR2_oldR4	38,085	38,085	-0	-0	23,147
CPP_seed92_pod4_C30_newR2_oldR4	752,367	752,367	-0	-0	103,93
CPP_seed93_pod4_C30_newR2_oldR4	244,519	244,519	-0	-0	21,802
CPP_seed94_pod4_C30_newR2_oldR4	493,603	493,603	-0	-0	3600,361
CPP_seed95_pod4_C30_newR2_oldR4	596,667	596,667	-0	-0	3456,128
CPP_seed96_pod4_C30_newR2_oldR4	53,171	53,171	-0	-0	93,079
CPP_seed97_pod4_C30_newR2_oldR4	203,75	203,75	-0	-0	38,187
$CPP_seed98_pod4_C30_newR2_oldR4$	596,936	596,936	-0	-0	146,511
$CPP_seed99_pod4_C30_newR2_oldR4$	67,324	67,324	-0	-0	70,382
$CPP_seed100_pod4_C30_newR2_oldR4$	150,388	150,388	-0	-0	3463,861
$CPP_seed101_pod4_C40_newR5_oldR0$	18	18	-0	-0	214,52
$CPP_seed102_pod4_C40_newR5_oldR0$	0	14,088	=	14,088	24,459
$CPP_seed103_pod4_C40_newR5_oldR0$	0	38,355	-	38,355	31,283
$CPP_seed104_pod4_C40_newR5_oldR0$	25,544	$25,\!544$	-0	-0	3600,381
$\overline{\text{CPP_seed105_pod4_C40_newR5_oldR0}}$	34,406	34,406	-0	-0	181,16
$CPP_seed106_pod4_C40_newR5_oldR0$	107,338	73,703	-0,313	-33,635	3600,67
$CPP_seed107_pod4_C40_newR5_oldR0$	629,278	464,821	-0,261	-164,457	3601,228
$CPP_seed108_pod4_C40_newR5_oldR0$	$56,\!536$	$56,\!536$	0	0	3600,373
$\overline{\mathrm{CPP_seed109_pod4_C40_newR5_oldR0}}$	0	-0	=	-0	36,745
$\overline{\mathrm{CPP_seed110_pod4_C40_newR5_oldR0}}$	18,362	32,134	0,75	13,772	264,392
$\overline{\text{CPP_seed111_pod4_C40_newR5_oldR0}}$	57,523	57,523	-0	-0	2556,404
$\overline{\text{CPP_seed112_pod4_C40_newR5_oldR0}}$	0	-0	=	-0	71,259
$\overline{\text{CPP_seed113_pod4_C40_newR5_oldR0}}$	48,357	29,899	-0,382	-18,458	550,065
$\overline{\text{CPP_seed114_pod4_C40_newR5_oldR0}}$	5,917	5,917	-0	-0	292,089
$\overline{\mathrm{CPP_seed115_pod4_C40_newR5_oldR0}}$	42,394	42,394	-0	-0	163,6
$\overline{\mathrm{CPP_seed116_pod4_C40_newR5_oldR0}}$	19,622	19,622	-0	-0	3406,216
$\overline{\mathrm{CPP_seed117_pod4_C40_newR5_oldR0}}$	11,359	11,359	-0	-0	1563,21
$\overline{\text{CPP_seed118_pod4_C40_newR5_oldR0}}$	0	0	_	0	517,417
$\overline{\mathrm{CPP_seed119_pod4_C40_newR5_oldR0}}$	15,311	15,311	-0	-0	1624,586
CPP seed120 pod4 C40 newR5 oldR0	309,11	337,636	0,092	28,526	3600,677
CPP seed121 pod4 C40 newR5 oldR0	6,88	72,537	9,543	65,657	69,684
CPP seed122 pod4 C40 newR5 oldR0	18,173	18,173	-0	-0	548,549
CPP seed123 pod4 C40 newR5 oldR0	41,139	41,139	-0	-0	3600,663
CPP seed124 pod4 C40 newR5 oldR0	50,501	50,501	-0	-0	3600,386
$\frac{-}{\text{CPP_seed125_pod4_C40_newR5_oldR0}}$	30,226	22,736	-0,248	-7,491	564,389
CPP seed126 pod4 C40 newR3 oldR4	135,014	135,014	-0	-0	198,681
CPP seed127 pod4 C40 newR3 oldR4	557,556	557,556	-0	-0	579,549
CPP seed128 pod4 C40 newR3 oldR4	169,351	155,239	-0,083	-14,113	3591,334
CPP seed129 pod4 C40 newR3 oldR4	1308,828	1308,828	-0	-0	3600,329
CPP seed130 pod4 C40 newR3 oldR4	678,247	652,506	-0,038	-25,741	3600,33
CPP seed131 pod4 C40 newR3 oldR4	258,714	258,714	-0	-0	2930,295
CPP seed132 pod4 C40 newR3 oldR4	306,942	303,281	-0,012	-3,661	3600,335
CPP seed133 pod4 C40 newR3 oldR4	403,239	403,239	-0	-0	2084,207
CPP seed134 pod4 C40 newR3 oldR4	54,248	68,648	0,265	14,4	19,242
CPP seed135 pod4 C40 newR3 oldR4	2,81	2,81	-0	-0	34,704
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$CPP_seed136_pod4_C40_newR3_oldR4$	$203,\!53$	$203,\!53$	-0	-0	148,027
$\overline{\mathrm{CPP_seed137_pod4_C40_newR3_oldR4}}$	233,812	233,812	-0	-0	3600,407
$\overline{\mathrm{CPP_seed138_pod4_C40_newR3_oldR4}}$	106,495	106,495	-0	-0	$3600,\!395$
$\overline{\mathrm{CPP_seed139_pod4_C40_newR3_oldR4}}$	96,911	96,911	-0	-0	111,062
$\overline{\mathrm{CPP_seed140_pod4_C40_newR3_oldR4}}$	135,779	135,779	-0	-0	3600,501
$\overline{\mathrm{CPP_seed141_pod4_C40_newR3_oldR4}}$	95,74	95,74	-0	-0	55,257
$\overline{\mathrm{CPP_seed142_pod4_C40_newR3_oldR4}}$	47,951	47,951	-0	-0	10,193
$\overline{\mathrm{CPP_seed143_pod4_C40_newR3_oldR4}}$	1357,19	1357,19	-0	-0	$3461,\!155$
$\overline{\mathrm{CPP_seed144_pod4_C40_newR3_oldR4}}$	94,337	94,337	-0	-0	$1751,\!253$
$\overline{\mathrm{CPP_seed145_pod4_C40_newR3_oldR4}}$	462,161	341,199	-0,262	-120,962	$3600,\!535$
$\overline{\mathrm{CPP_seed146_pod4_C40_newR3_oldR4}}$	312,279	$312,\!279$	-0	-0	105,268
$CPP_seed147_pod4_C40_newR3_oldR4$	510,798	510,798	-0	-0	437,191
$CPP_seed148_pod4_C40_newR3_oldR4$	487,692	487,692	-0	-0	1312,759
$\overline{\text{CPP_seed149_pod4_C40_newR3_oldR4}}$	278,862	267,871	-0,039	-10,991	3600,358
$\overline{\text{CPP_seed150_pod4_C40_newR3_oldR4}}$	47,583	55,893	0,175	8,31	1037,844