

# 1 Properties of ISPD98 Hypergraphs

Table 1: Properties of the hypergraphs derived from the ISPD98 Circuit Benchmark Suite [1]. The hypergraphs are sorted by number of pins.

Hypergraph	$ V $	$ H $	$ pins $	$d(v)$				$ e $			
				$\mu$	$\sigma$	min	max	$\mu$	$\sigma$	min	max
ibm01	12 752	14 111	50 566	3.97	2.33	1	39	3.58	3.34	2	42
ibm02	19 601	19 584	81 199	4.14	2.29	1	69	4.15	5.45	2	134
ibm03	23 136	27 401	93 573	4.04	3.45	1	100	3.41	3.11	2	55
ibm04	27 507	31 970	105 859	3.85	4.65	1	526	3.31	2.92	2	46
ibm05	29 347	28 446	126 308	4.30	2.35	1	9	4.44	4.29	2	17
ibm06	32 498	34 826	128 182	3.94	1.84	1	91	3.68	3.28	2	35
ibm07	45 926	48 117	175 639	3.82	2.41	1	98	3.65	3.05	2	25
ibm08	51 309	50 513	204 890	3.99	6.18	1	1 165	4.06	5.01	2	75
ibm09	53 395	60 902	222 088	4.16	3.22	1	173	3.65	3.13	2	39
ibm11	70 558	81 454	280 786	3.98	3.17	1	174	3.45	2.60	2	24
ibm10	69 429	75 196	297 567	4.29	3.22	1	137	3.96	3.56	2	41
ibm12	71 076	77 240	317 760	4.47	4.68	1	473	4.11	3.72	2	28
ibm13	84 199	99 666	357 075	4.24	3.34	1	180	3.58	3.01	2	24
ibm14	147 605	152 772	546 816	3.70	3.18	1	270	3.58	2.94	2	33
ibm15	161 570	186 608	715 823	4.43	3.29	1	306	3.84	3.51	2	36
ibm16	183 484	190 048	778 823	4.24	2.77	1	177	4.10	3.61	2	40
ibm18	210 613	201 920	819 697	3.89	1.90	1	97	4.06	3.96	2	66
ibm17	185 495	189 581	860 036	4.64	2.49	1	81	4.54	4.07	2	36

## References

- [1] C. J. Alpert. The ISPD98 Circuit Benchmark Suite. In *Proc. of the 1998 Int. Symp. on Physical Design*, pages 80–85, New York, 1998. ACM.