Prog	Unnormalized Reference Stats					Normalized Reference Stats					Address Space Size					Basic Block Size	
	Refs	if%	rd%	wt%	vect%	Refs	if%	rd%	wt%	vect%	kbytes	if%	sclr%	vect%	shrd%	Instr	Bytes
Cray Scalar Benchmarks																	
diff	1398418	88.0	5.9	6.1	3	524145	68.1	15.7	16.1	2	66.9	13.1	84.6	0.9	0.0	14.01	34.50
dry	1650467	79.1	10.8	10.1	16	708229	51.2	25.2	23.6	16	15.4	39.4	48.5	7.4	4.7	21.79	58.86
grep	1250849	91.6	4.8	3.6	0	429150	75.4	13.9	10.6	0	23.9	42.2	51.3	4.1	2.3	20.02	45.87
lin	1299384	79.0	10.8	10.2	16	559291	51.2	25.2	23.7	15	47.4	57.4	31.1	7.4	4.1	19.16	47.10
qsort	1351702	86.5	6.3	7.2	8	498116	63.5	17.0	19.5	8	25.6	17.3	70.3	6.3	6.1	38.11	89.16
whets	528524	84.1	8.6	7.3	3	209165	59.9	21.6	18.6	3	38.5	63.6	29.3	2.7	4.4	18.01	45.93
Cray Vector Benchmarks																	
loops14	1653620	69.7	15.0	15.4	45	812275	38.2	30.6	31.2	45	117.8	18.0	25.5	15.0	41.5	18.86	52.33
loops16	2150136	80.1	15.4	4.5	0	934442	54.1	35.6	10.3	0	44.4	47.9	31.3	12.4	8.4	12.19	37.24
loops21	1316361	57.8	27.1	15.2	84	757861	26.7	47.0	26.3	84	64.4	33.9	20.7	6.7	38.7	62.22	148.38
loops8	2384954	27.3	51.5	21.2	96	1902983	8.8	64.6	26.6	96	98.0	22.8	63.7	2.0	11.4	44.83	108.44
nas1	1356365	47.2	41.1	11.7	89	884391	19.1	63.0	17.9	89	45.2	46.5	34.5	6.7	12.3	50.39	117.18
nas2	901095	65.1	18.1	16.7	70	469120	33.1	34.8	32.1	71	46.0	51.7	36.0	4.2	8.1	41.42	102.56
nas5	660936	68.2	20.3	11.5	71	334603	37.1	40.2	22.8	70	56.9	43.5	24.2	15.3	17.0	24.98	61.48
nas7	2531979	30.2	50.6	19.1	96	1968210	10.2	65.2	24.5	96	139.0	16.5	8.5	29.0	46.1	78.15	190.39
Ardent Benchmarks																	
ampac	20000001	76.7	15.5	7.9	0	21647268	70.8	19.9	9.3	0	498.0	17.1	82.8	0.0	0.0	19.59	78.37
arc3d	20000001	58.6	28.9	12.6	60	20110071	58.3	29.1	12.6	60	1882.5	7.6	3.7	48.1	40.5	23.98	95.92
bmk1	20000005	71.1	20.3	8.6	39	20000171	71.1	20.3	8.6	39	119.5	9.2	1.5	88.4	1.0	13.19	52.77
bmk11a	20000005	53.7	26.2	17.0	78	27191793	39.5	34.2	21.8	80	367.5	2.9	0.3	66.7	30.2	14.02	56.10
bmk21b	20000002	85.7	9.1	5.2	0	22033529	77.7	14.3	7.9	0	72.2	25.7	55.2	13.2	6.0	16.69	66.76
born	20000001	76.4	9.9	13.7	0	20027535	76.3	10.1	13.7	0	4152.9	0.7	99.3	0.0	0.0	7.41	29.63
flo82	20000003	72.5	18.9	8.7	57	20599516	70.3	21.0	8.6	52	281.3	36.1	25.8	24.4	13.8	22.83	91.31
lapack	20000002	75.8	15.7	8.7	35	22278263	68.0	19.2	12.8	47	4461.8	0.1	0.1	0.2	99.6	17.34	69.34
mopac	14907709	78.1	13.1	8.8	11	16113545	72.3	13.5	11.2	18	779.6	16.1	35.4	38.0	10.6	16.77	67.10
simple	20000001	58.2	31.5	10.4	74	27092792	42.9	43.7	13.4	80	242.9	24.1	3.3	47.3	25.4	22.97	91.87
wake	20000001	70.6	17.9	11.2	40	20325378	69.4	18.6	11.6	39	225.0	22.6	8.2	53.0	16.2	13.95	55.82
Workload Averages																	
Cray sclr	1246557	84.5	7.9	7.6	10	488016	60.5	20.2	19.3	10	36.3	37.3	55.3	4.1	3.0	20.22	49.32
Cray vect	1619430	51.9	33.2	14.8	81	1007985	22.8	53.4	23.8	81	76.5	29.3	29.0	13.6	28.1	25.46	66.60
Ardent	19537067	68.3	19.9	11.8	50	21583623	63.8	23.4	12.3	49	1189.4	4.9	38.4	14.3	42.4	16.98	67.92
VAX	-	-	-	-	-	250000	57.3	26.6	16.1	0	22.5	26.3	73.7	-	-	NA	NA
IBM 370	-	-	-	-	-	250000	57.8	30.2	12.0	0	66.8	32.5	67.5	-	-	NA	NA
IBM 360/91	-	-	-	-	-	250000	66.4	23.2	10.4	0	27.7	37.9	62.1	-	-	NA	NA

Table 2: Unnormalized and normalized breakdown of memory references as well as the amount of referenced address space in the traces. Reference percentages are listed for instructions (if%), data reads (rd%), and data writes (wt%). The percentage of data references that are carried out in vector mode is also given (vect%). The total number of kbytes referenced within each trace is listed, as well as the percentage of bytes touched by instructions (if%), by scalar-only data references (sclr%), by vector-only data references (vect%), and by both scalar and vector data references (shrd%). Average basic block size is listed both by instructions and by bytes.