

Lilliput Experiment Results

All measures are averages over the given number of samples.

Smpls: Number of samples taken
 Num-objs: Average number of objects in the heap
 Size: Average size of objects in the heap, in bytes
 LDS: Live-data-set: Average number of bytes occupied by live (i.e. reachable) objects in the heap
 IHashed: Number of objects that have an identity hashcode
 Locked: Number of locked objects
 %Ihashed: How many % of live objects have an identity hashcode
 %Locked: How many % of live objects have been locked

	Smpls	Num-objs	Size	LDS	Ihashed	Locked	%Ihashed	%Locked
Akka-uct	608	4,361,252	27	121,892,296	2,003	25	0.05%	0.00%
Als	1711	1,971,209	62	122,413,413	21,336	211	1.08%	0.01%
Chi-square	683	3,564,621	33	118,634,906	18,978	77	0.53%	0.00%
Db-shootout	224	72,79	79	5,795,640	1,608	4	2.21%	0.01%
Dec-tree	939	383,492	61	23,762,498	27,684	301	7.22%	0.08%
Dotty	488	323,877	48	15,801,166	13,379	7	4.13%	0.00%
Finagle-chirper	924	1,544,052	27	41,901,120	36,658	467	2.37%	0.03%
Finagle-http	1820	239,455	46	11,235,585	7,465	964	3.12%	0.40%
Fj-kmeans	487	2,755,515	36	101,620,156	1,096	12	0.04%	0.00%
Future-genetic	5560	49,566	41	2,051,888	1,102	73	2.22%	0.15%
Gauss-mix	1131	193,067	61	11,877,600	20,743	88	10.74%	0.05%
Log-regression	1217	454,523	752	341,866,275	32,757	167	7.21%	0.04%
Mnemonics	1284	114,381	39	4,564,385	867	3	0.76%	0.00%
Movie-lens	3007	669,174	38	25,813,857	146,386	302	21.88%	0.05%
Naive-bayes	125	2,863,957	492	1,409,196,996	51,379	126	1.79%	0.00%
Neo4j-analytics	1640	999,156	50	50,762,959	18,785	2,973	1.88%	0.30%
Page-rank	137	19,283,224	30	581,361,282	4,510,944	129	23.39%	0.00%
Par-mnemonics	1288	179,059	40	7,258,851	890	3	0.50%	0.00%
Philosophers	3245	46,875	49	2,342,731	2,195	924	4.68%	1.97%
Reactors	440	5,886,619	33	196,289,403	2,264	632	0.04%	0.01%
Rx-scrabble	737	812,495	30	24,898,063	1,187	40	0.15%	0.00%
Scala-doku	704	198,144	24	4,808,244	24,103	3	12.16%	0.00%
Scala-kmeans	1208	60,329	40	2,423,688	1,118	3	1.85%	0.00%
Scala-stm-bench7	227	3,499,505	30	107,649,699	1,058,966	22	30.26%	0.00%
Scrabble	375	2,899,768	28	81,581,629	1,176	17	0.04%	0.00%
Compiler.compiler	714	6,993,963	39	273,168,819	1,700,872	11,840	24.32%	0.17%
Compiler.sunflow	345	7,050,561	35	250,704,305	1,482,393	468	21.03%	0.01%
Compress	1364	11,752	18447	216,793,553	531	26	4.52%	0.22%
CryptoAes	9100	20,740	85	1,769,516	805	25	3.88%	0.12%
CryptoRsa	3956	32,549	79	2,580,747	812	29	2.49%	0.09%
CryptoSignVerify	208	50,486	96	4,896,152	745	25	1.48%	0.05%
Derby	2016	3,321,638	94	314,400,671	3,425	1,085	0.10%	0.03%
MpegAudio	2720	17,033	185	3,155,940	627	55	3.68%	0.32%
ScimarkFFT.large	9120	11,441	29441	336,867,619	522	19	4.56%	0.17%
ScimarkFFT.small	652	12,012	368	4,424,850	518	17	4.31%	0.14%
Serial	148	804,862	40	32,382,926	9,135	69	1.13%	0.01%
Sunflow	596	1,520,535	35	53,948,514	1,145	185	0.08%	0.01%
XmlTransform	1715	1,051,685	74	77,943,106	16,404	155	1.56%	0.01%
XmlValidation	637	4,860,800	29	141,530,974	3,154	122	0.06%	0.00%
avro	2744	139,515	49	6,872,304	735	8	0.53%	0.01%
batik	442	2,419,292	40	96,964,528	1,448	7	0.06%	0.00%
biojava	2320	168,846	148	25,058,934	1,595	4	0.94%	0.00%
eclipse	2068	907,723	76	69,377,158	10,931	110	1.20%	0.01%
graphchi	72	31,531	208	6,573,901	999	9	3.17%	0.03%
h2	2427	14,327,673	30	442,899,050	1,026	22	0.01%	0.00%
jme	206	82,447	1091	89,995,013	2,149	5	2.61%	0.01%
kython	212	145,214	54	7,871,629	4,537	5	3.12%	0.00%
lusearch	20	1,139,743	87	99,463,922	646	27	0.06%	0.00%
sunflow	1108	364,178	137	50,037,248	896	13	0.25%	0.00%
tradebeans	5831	4,502,694	34	154,960,435	2,8507	551	0.63%	0.01%