

Table I
MEAN RESULTS OVER 200 EXPERIMENTS OF OFFLINE AND ONLINE TIME OF ALL ALGORITHMS FOR EVALUATED FEATURE MODELS.

Feature Model	Size	Constraints	Offline time in ms (\varnothing)			\sum Online time in ms for relative number of defined features (\varnothing)								
						3%			10%			100%		
			ASAT	NMIG	CMIG	ASAT	NMIG	CMIG	ASAT	NMIG	CMIG	ASAT	NMIG	CMIG
am31_sim	1,166	2,968	7	98	903	105	8	5	204	12	9	459	17	14
sparc_leon	1,169	2,972	7	98	876	108	8	5	204	12	8	455	17	13
sparc_erc32	1,169	2,972	7	98	875	110	8	5	203	12	8	451	17	13
sparcelite_sim	1,169	2,972	7	100	877	108	8	5	206	12	9	464	18	14
calm16_ceb	1,174	2,990	8	101	884	114	8	5	213	13	9	473	18	14
calm32_ceb	1,174	2,990	6	101	885	112	9	5	213	13	9	472	18	14
tx39_sim	1,180	2,988	7	100	912	108	8	5	210	12	8	470	17	14
psim	1,182	2,995	6	100	903	108	8	5	212	12	9	479	18	14
h8300h_sim	1,183	3,001	7	100	884	110	8	5	209	12	8	467	18	14
h8s_sim	1,184	3,003	7	100	881	112	8	5	212	12	8	472	18	14
fads	1,188	3,008	7	100	904	111	8	5	212	13	9	473	18	14
sleb	1,189	3,009	7	102	903	110	8	5	211	12	8	471	18	13
ceb_v850	1,190	3,025	7	103	913	113	9	5	219	14	9	489	20	15
stdeva11	1,191	3,049	7	104	922	114	8	5	218	13	9	480	19	15
edosc2674	1,195	3,034	7	105	939	116	11	6	218	16	10	476	21	15
jmr3904	1,200	3,035	7	104	934	117	9	5	218	13	9	475	18	14
h8max	1,203	3,072	7	107	956	117	11	6	221	16	10	492	22	16
cma28x	1,205	3,051	7	105	924	114	9	6	214	13	9	479	19	15
aki3068net	1,208	3,080	8	107	978	121	13	7	226	17	11	500	24	17
atlas_mips64_5kc	1,210	3,066	7	107	984	121	12	7	227	16	11	500	22	17
cma230	1,213	3,739	8	108	937	120	10	6	229	14	9	509	20	15
mpc50	1,214	3,728	9	105	945	119	9	5	223	13	9	489	19	14
gps4020	1,214	3,743	9	109	949	119	10	6	227	14	10	498	20	15
aeb	1,214	3,767	8	108	965	121	10	6	227	15	10	492	20	15
atlas_mips32_4kc	1,217	3,078	7	109	994	123	12	7	229	16	11	504	22	17
skmb91302	1,218	3,052	7	106	1,006	119	9	5	228	13	9	512	19	15
ref4955	1,219	3,099	7	108	971	118	9	6	223	13	10	495	19	15
snds	1,219	3,748	8	109	961	124	13	8	233	17	12	502	23	17
brutus	1,222	3,754	9	108	944	118	10	6	229	14	10	502	20	15
sa1100mm	1,223	3,760	9	110	948	120	10	6	229	14	10	499	20	15
prpmc1100	1,224	3,754	9	107	953	119	9	6	225	13	9	493	19	15
pid	1,230	3,778	9	112	972	119	10	6	226	15	10	503	21	16
mb93093	1,231	3,083	7	114	1,065	125	11	7	246	16	12	546	23	18
asb	1,232	3,081	7	109	1,012	120	9	6	228	14	10	510	20	16
malta_mips64_5kc	1,233	3,212	8	119	1,044	126	13	8	242	18	12	536	24	18
malta_mips32_4kc	1,233	3,213	7	116	1,041	125	12	8	239	17	12	531	23	17
csb281	1,234	3,114	8	115	1,045	126	13	8	240	18	12	533	24	19
excalibur_arm9	1,234	50,538	50	189	1,213	157	12	8	285	17	12	590	24	18
mace1	1,235	3,770	8	109	981	120	10	6	226	14	10	497	20	16
mac7100evb	1,235	3,770	9	110	983	121	10	6	227	14	10	504	20	16
eb42	1,235	3,779	9	110	965	121	10	6	229	14	10	514	20	15
frv400	1,239	3,096	8	113	1,078	131	12	8	244	17	12	535	23	18
cq7708	1,239	49,770	55	183	1,213	162	14	9	296	19	14	606	26	20
vads	1,241	3,235	8	118	1,050	129	14	8	243	19	13	540	25	18
ts6	1,241	3,235	8	120	1,036	127	13	8	238	18	12	524	24	17
eb40	1,241	3,816	9	112	983	121	10	7	233	15	11	523	21	16
grg	1,242	3,792	8	112	1,022	126	11	7	243	15	11	527	22	17
eb40a	1,242	3,817	9	114	991	124	10	7	239	15	11	533	21	16
jtst	1,242	3,818	10	112	993	125	10	7	237	15	11	528	21	16
asb2305	1,243	3,101	8	110	1,025	124	10	6	234	14	10	523	20	15
eCos 3.0 i386pc	1,245	2,478	8	128	1,223	123	11	6	236	15	10	519	21	16
ebsa285	1,246	3,832	8	119	1,063	130	14	8	246	19	13	540	25	19
edb7xxx	1,247	3,812	9	114	997	126	12	8	239	17	12	529	24	18
vrc4373	1,248	3,104	8	110	1,081	122	9	6	234	14	10	531	20	15
ixdp425	1,248	3,799	9	112	1,025	130	11	7	248	16	11	545	22	17
pati	1,249	3,266	7	117	1,018	123	10	6	233	14	10	530	21	16
picasso	1,249	3,808	9	113	1,027	129	12	7	246	17	11	540	23	17
uE250	1,250	3,810	9	113	1,021	129	12	7	247	17	12	532	23	17

Feature Model	Size	Constraints	Offline time in ms (\emptyset)			\sum Online time in ms for relative number of defined features (\emptyset)								
			ASAT	NMIG	CMIG	3%			10%			100%		
						ASAT	NMIG	CMIG	ASAT	NMIG	CMIG	ASAT	NMIG	CMIG
p2106	1,250	3,824	8	114	995	124	10	6	237	15	10	528	21	17
lpcmt	1,250	3,824	10	118	1,011	125	10	6	241	15	11	537	21	17
mcb2100	1,250	3,824	9	117	1,018	126	10	6	241	15	11	539	21	17
mb93091	1,251	3,131	8	116	1,099	129	14	10	254	19	14	556	26	20
dreamcast	1,253	3,168	8	114	1,065	130	14	9	242	18	12	527	25	18
stb	1,253	3,146	7	114	1,062	124	9	6	242	14	10	546	21	16
sh7708	1,254	49,851	52	186	1,270	160	14	10	292	20	15	601	27	21
pc_vmWare	1,256	3,174	9	115	1,091	134	11	7	263	17	12	579	23	18
iq80321	1,257	3,820	9	114	1,055	131	13	8	246	18	12	534	24	18
innovator	1,257	50,452	52	189	1,347	160	17	11	289	22	15	606	29	21
pc_rltk8139	1,258	3,179	7	120	1,106	133	13	7	256	17	11	558	24	17
vrc4375	1,259	3,129	8	116	1,105	131	13	8	254	18	12	574	24	18
sh4_202_md	1,259	3,196	8	121	1,076	133	14	8	247	18	12	540	25	18
iq80310	1,259	3,821	10	118	1,070	130	14	8	250	18	12	549	25	18
npwr	1,259	3,822	10	120	1,090	132	13	8	258	18	12	563	25	19
ipaq	1,259	3,868	10	117	1,015	125	10	6	238	15	10	530	21	16
pc_i82559	1,260	3,179	8	115	1,091	133	12	6	259	17	11	570	24	17
pc_i82544	1,260	3,179	9	114	1,096	133	12	6	257	17	11	559	23	16
integrator_arm7	1,260	3,939	10	126	1,096	131	13	7	247	18	11	531	24	16
XSEngine	1,261	3,803	9	115	1,104	132	13	8	248	18	12	549	24	18
olpch2294	1,262	3,851	10	117	1,044	129	10	6	249	15	11	553	22	17
refidt334	1,264	3,140	7	120	1,166	131	14	9	257	19	13	579	26	20
aim711	1,265	3,873	10	121	1,103	133	13	9	255	18	13	560	25	19
nano	1,266	3,870	10	126	1,140	131	14	8	248	19	13	549	25	19
flexanet	1,266	3,883	10	124	1,097	131	14	8	252	19	13	555	26	19
smdk2410	1,266	50,468	52	188	1,314	158	12	8	285	17	12	611	23	18
ocelot	1,267	3,141	8	118	1,106	130	12	7	244	17	11	547	23	17
cme555	1,267	3,167	7	114	1,068	126	10	6	235	14	10	535	21	16
e7t	1,267	3,816	9	121	1,149	135	12	7	252	17	12	558	23	17
assabet	1,267	3,883	10	118	1,072	128	11	7	242	16	11	536	23	17
cq7750	1,268	3,173	8	114	1,104	127	10	6	238	14	10	534	20	15
ec555	1,268	3,169	7	115	1,074	126	9	6	239	14	10	552	20	16
integrator_arm9	1,268	50,606	51	196	1,391	169	18	9	330	24	14	708	32	22
stm3210e_eval	1,270	3,200	7	116	1,048	132	11	7	254	16	11	554	23	17
eb55	1,271	3,882	10	121	1,058	127	11	7	247	16	11	554	23	17
adder	1,273	3,201	8	120	1,063	137	14	8	258	19	13	553	26	19
olpcl2294	1,274	3,878	10	125	1,088	138	13	8	259	18	12	564	24	18
phycore	1,275	3,852	10	121	1,116	128	10	7	248	15	11	583	22	17
olpce2294	1,275	3,881	10	124	1,089	136	13	8	261	18	12	577	25	19
adderII	1,277	3,206	8	121	1,063	135	14	9	256	19	13	552	25	19
cerf	1,277	3,910	10	123	1,116	135	13	8	253	18	12	551	25	18
moab	1,278	3,249	8	123	1,120	138	13	7	260	18	12	573	25	18
pc_usb_d12	1,282	3,231	7	120	1,129	131	10	6	256	16	11	576	22	17
aaed2000	1,285	50,512	51	196	1,378	165	18	11	302	23	16	646	30	22
cerfpda	1,292	3,940	11	129	1,159	136	14	8	261	19	13	575	26	19
mbx	1,296	3,218	8	125	1,165	134	12	7	255	17	11	567	24	17
se7751	1,296	3,254	9	125	1,185	140	14	8	264	19	13	578	26	19
at91sam7sek	1,297	3,921	11	123	1,087	132	10	6	252	15	11	566	22	17
ts1000	1,298	3,218	16	127	1,148	136	12	7	255	17	12	568	24	18
hs7729pci	1,299	49,911	53	198	1,492	176	20	13	317	26	18	668	33	24
viper	1,302	3,230	8	126	1,141	139	13	7	260	17	11	584	24	17
rattler	1,312	3,245	8	132	1,228	142	13	8	265	18	13	582	25	19
at91sam7xek	1,320	3,963	11	131	1,196	145	13	8	272	18	13	603	25	19
se77x9	1,320	49,937	54	198	1,573	181	15	11	340	22	16	722	30	24
m5272c3	1,324	3,297	9	129	1,225	149	16	10	271	21	15	577	29	21
sam7ex256	1,333	3,989	11	131	1,198	145	13	8	284	19	13	637	27	20
phycore229x	1,361	4,026	12	141	1,249	147	14	9	280	20	14	619	27	20
ea2468	1,396	4,138	14	140	1,238	156	14	9	296	20	14	637	28	21
FreeBSD 8.0.0	1,397	14,295	39	419	6,887	207	48	41	438	65	56	1,818	95	81
Automotive01	2,513	2,833	67	696	11,596	1,544	358	351	3,101	555	544	6,046	758	744
Linux 2.6.28.6	6,889	80,715	274	16,748	399,976	11,781	5,754	4,244	26,977	8,387	5,634	80,666	10,070	6,658
Automotive02	18,616	1,369	2,295	42,468	296,727	329,288	38,076	37,836	535,708	58,771	58,452	821,480	68,034	67,676