

Appendix

TABLE 1: List of the 113 benign software tested in our evaluation. Software adversely affected by non-intrusive strategies (*) and intrusive strategies (') are marked. Software tested under different workloads are bold.

CPU-bound						I/O-bound				
specrand	lbm	h264ref	libquantum	sjeng '	diff	sendxmpp	nslookup '	netstat	tcpdump	nmap
soplex '	mcf	tar * '	namd	gromacs	cksum	sendmail	ls	ss	dig	ifconfig
omnetpp	astar	a2ps	tail	accton	spell	route	ping	arp	nano	pico
lastcomm	head	dump-acct	sort	cppl	ebizzy	lpstat	vim * '	xte '	echo	wget * '
teseq	grep	gcal	gcal2txt	tcsl	crafty	emacs '	mkdir	traceroute '	truncate	nice
txt2gcal	wdiff	moe '	screen '	h264ref	c-ray	cut	service	df	du	host
find	paxutils	shar	unshar	uuencode	hmmr	firefox *	skype	thunderbird * '	gedit	fs-mark '
enscript	ad2c	libextractor	csv2rec	python '	nero2d	cp	rm	ab	chrome	libreoffice
recdel	tar	recinf	ruby	gcc	mrbayes	surlbhost	gurgle	gv	ctags	mkafmmmap
javac '	recfmt	cyclictest '	multichase	himeno	blogbench	barcode	iozone '			
dolfyn	encode-ogg	espeek	ffte	fhourstones	gcript					

TABLE 2: List of the 100 malware samples used in our evaluation. We named malware with their executable file name.

Malware Category	Malware Name	Malware Name
Flooders	VirusShare_0a6c05d448d41a549bf8949a41a8e4d3	VirusShare_0df5910e6e5f865fddfd2d4a4911893fb
Flooders	VirusShare_1a39b759416597743a7357634cb29743	VirusShare_1cc96351edd803bdaf849978d3e6c1cf
Flooders	VirusShare_1d254d60fc8c588e3ad23ea55e84af1e	VirusShare_1d57994e9ee7b308ea5f767dcd04195a
Flooders	VirusShare_1da85ad45cb7e66738cbb0e050dca2e2	VirusShare_2b9125e77e18926fe6b99b93f79da92e
Flooders	VirusShare_6b174d94b2b20a506cfd4074be6df05	VirusShare_47e6947dad6821745d9d24e31a894400
Flooders	VirusShare_25689d63d0476435e752c9bf61bf2942	VirusShare_a3b5646f130a129edfe7273606de8952
Flooders	VirusShare_b8f97d0ba7d21e5b08d98f32c3b97fec	VirusShare_e1bc6b6911feba3692579c771cc451e4
Flooders	VirusShare_edf4d6003c9c68774438e4fb25198dab	VirusShare_ffc7be26912b25aca63e55dc7c830f28a
Flooders	VirusShare_ff4dbe26278bfda759ee8b1f10d94d3b	VirusShare_b16de6aa853cab944503825e08cca9b3
Flooders	VirusShare_b31ae7e6de5da850f91bd4c9c4a47da0	VirusShare_b74a48a7555c6ae6a260b0a3ff7e6aa2
Flooders	VirusShare_b96ee50d33a6b376b67f257718e211f8	VirusShare_b367a540ef865acea0fb00d41c91f378
Spyware	VirusShare_0a07cf554c1a74ad974416f60916b78d	VirusShare_0b283a19a141030be3e8188896d9510b
Spyware	VirusShare_0d2dfefb9cfa7d082e9e0d13a28e9722	VirusShare_1dc810f0fd905046caaad1ea6f79b0e
Spyware	VirusShare_00f7adbce985699b07a114e383787c74	VirusShare_0d057b1b2d81728cb97f5484e9344fc0
Spyware	VirusShare_986f442fea7f98579e8a2b4a52f961ab	lkl
Spyware	logkeys	VirusShare_fd46acb36263b0155e644941a9e6f03a
Spyware	VirusShare_fe2df5014dd6f67dc15dfddba25ddd9d	VirusShare_b5c3730f4c373ae6cd9f8e770b332de6
Spyware	VirusShare_b7aedd8e6907acde2c2ca72ea18e1ac8	VirusShare_b67d0e7a6fddc712aded5bd1a64cfb3e0
Spyware	VirusShare_b790de9fc2921caa97be21236446d6bf	
Trojan	VirusShare_0b57ab2f37580a84219dd2faaa9f3444	VirusShare_1b7f7a6af703002c56754c826459e109
Trojan	VirusShare_01c5f86372a4f31e72675f8be9b4e6c7	VirusShare_1a6e2a1ebaa423ba2974c3e66f734f2c
Trojan	VirusShare_5a16c12e1abe11317465ea4032aa25aa	VirusShare_52be89c6e6b108b610dfe2cb67b9fe4e
Trojan	VirusShare_753d5e7af271c12e0803956dd8c2b8e6	VirusShare_bc3c6f56c85ecd1a7b8bbded84f7e6cd
Trojan	Botnet	VirusShare_e414088f88b329c99aac2ebdfaf5aad23
Trojan	VirusShare_ef112ebf02f0ded52207eed236084cd9	ncrack
Trojan	Trojanit	httpd
Trojan	VirusShare_ff4bdef83f191cd6451e26a09311bcd2	VirusShare_fda2e5692426454eaf663f7684281955
Trojan	VirusShare_fdbfffa9bbc918a1b780e54249d3fc99	VirusShare_b2cc8e0741d07be0d34b4ea5cdd00f31
Trojan	VirusShare_b21c7770a6b16c166a1deee6efcf68a1	VirusShare_b24ef5e799b9569377d8705d91bce38
Trojan	VirusShare_b62f3df6160145643a2f30d635f2476c	VirusShare_b77e81d28c2585489e07ccdbec8eb883
Trojan	VirusShare_b94ab416758569167a54abef295c599b	VirusShare_b747e8639341958e9c172b6e0c973355
Viruses	VirusShare_0a4b022d6865dc32bb246c8b57aad0b6	VirusShare_1c41538ccd680edfc0a5e36021fc37e5
Viruses	VirusShare_2c45f0f3dc02d8772f875cc5184459ec	VirusShare_1a46e25a5c3419f1dbc7b63b59053ab3
Viruses	VirusShare_3deec7f4fa618f6a97e7f7af33ed299	VirusShare_8b1ba12a6246829d774ccfdb27db0d6
Viruses	VirusShare_8b754b0219aad9bed5da083b9a034352	VirusShare_8b7521ab69a46902087af19455b21e19
Viruses	VirusShare_13ee81ea357a97f1d879b91c827a5629	VirusShare_56c7dcc249a715e05e5604d142d6d1e8
Viruses	VirusShare_217ece604b4e4a0f766c4ea8aa218519	VirusShare_522a4cdb1f05fdda5f390b31a95f7ae3
Viruses	VirusShare_7139ce345ffdacfc92d0cc70e8830320	VirusShare_79927828f9c2e7a015b94c59f4cfe2bb
Viruses	VirusShare_d19ad58b5807415b2e1cb3a503755c59	dataseg
Viruses	VirusShare_ed91cd156c154865859deac9e635ac0	VirusShare_f0e87998dd417dc02da7d5def6367cf
Viruses	VirusShare_f11ccc4ac53495a871b278c5efa6b98	VirusShare_fbf05500579ac4c597998d3359a76c42
Viruses	iamsick	manpage
Viruses	vlp	VirusShare_fd40c417fb687341b8673f6de4e34aef
Viruses	VirusShare_b50ddaa7162db9817938af18940c81ab	
Worms	VirusShare_0a477a043a8b3deba999bbbf1a1c32f47	VirusShare_0ba3e70816496e5f9d45912f9f15fb76
Worms	VirusShare_0cd70e3262a214fd104813826dd612c9	VirusShare_0e4cca1b162c3a9035214058f93a97b4
Worms	VirusShare_1d6fa5ed0080a0997f51a86697b8392c	VirusShare_3c2bd0548bf8c33566a5bda743441cf0
Worms	VirusShare_447bc42013537c5173e575cf0d166937	VirusShare_986f442fea7f98579e8a2b4a52f961ab
Worms	VirusShare_20719a9e850c07ac60d548a546ec0a7f	VirusShare_e8ff4cb488fea8e0ad78e8dc28ae884c
Worms	kaiowas10	ssl-crack
Worms	VirusShare_fe2b2560121db8d08d044bc2d579eac4	VirusShare_b4ba07c4d9b781635b33d485b73a614f