

Appendix D

SIZES OF RUN-TIME LIBRARY ELEMENTS

Name	Size (hex)	When present
ZYQACC	8	Logging support
ZYQACCUM	110	Accum
ZYQACTIV	3E8	Scheduling statement
ZYQARRAY	270	Arrays
ZYQATTAC	48	CALL
ZYQATTN	128	When running the interact.deb.sys.
ZYQBC	90	Object generator
ZYQBSC	1B10 1)	Always
ZYQBLANK	110	BLANKS
ZYQBPB	A8	Prefixed block
ZYQCALL	E0	Call
ZYQCANCE	A8	Simulation block
ZYQCCP	38	Call on connected procedure
ZYQCCVP	60	Call on connected virtual procedure
ZYQCDGEN	38	Connected or remote procedure passed as a parameter
ZYQCDP	38	Call on remote procedure
ZYQCDVP	58	Call on remote virtual procedure
ZYQCEP	48	Call on external procedure
ZYQCFP	80	Call on formal procedure
ZYQCLOSE	1B10 1)	Always
ZYQCOM	E20	Always
ZYQCOMUN	98	Always
ZYQCONNE	68	Connection block
ZYQCOPY	C8	COPY
ZYQCSW	90	Switch
ZYQCURRE	10	CURRENT
ZYQCVP	40	Call virtual procedure
ZYQDATE	68	Always
ZYQDBGDT	AF8	SYMBDUMP compile parm > 0
ZYQDEBUG	FC8	SYMBDUMP compile parm > 0
ZYQDEFLT	60	Always
ZYQDETAC	170	DETACH
ZYQDFTRC	818	SYMBDUMP compile parm > 0
ZYQDIREC	580	DIRECTFILE
ZYQDISCR	A8	DISCRETE
ZYQDRAW	40	DRAW
ZYQDUMP	380	Always, DUMP > 3
ZYQDXPD	54	Exponentiation real to real (long)
ZYQDXPI	70	Exponentiation real to integer
ZYQECB	F0	Always
ZYQEJECT	7C	EJECT, LINE, LINESPERPAGE, SPACING
ZYQENT	1B10 1)	Always (program entry point)

Notes

1) Size includes all parts of resident RTS

Name	Size (hex)	When present
ZYQENTVI	5D0	Formal, virtual or external procedure
ZYQEPBPA	50	Prefixed block with parameter(s)
ZYQERLAN	D8	ERLANG
ZYQERR	BB8	Always, error exit routine, DUMP>0
ZYQERRDP	20C	Always, error exit routine, DUMP>0
ZYQERREX	38	Always, error exit routine, DUMP>0
ZYQEVD	60	Same as ZYQENTVI
ZYQEVTIM	30	EVTIME
ZYQFILE	1B10	1) Always
ZYQFIXPI	78	Exponentiation integer to integer
ZYQFORT	308	Call on external assembly or Fortran procedure
ZYQFSA	1B10	1) Always (RTS, Fixed Storage Area)
ZYQGC6	200	Always
ZYQGETCH	28	GETCHAR
ZYQGETFR	188	GETFRAC, INFRAC
ZYQGETIN	130	GETINT, ININT
ZYQGETRE	2A0	GETREAL, INREAL
ZYQGL	190	Goto statement
ZYQGVL	38	Goto statement with virtual label
ZYQHISTD	90	HISTD
ZYQHISTO	140	HISTO
ZYQHOLD	E0	HOLD
ZYQIDLE	28	IDLE
ZYQIFEX	1B10	1) Always
ZYQINCHA	4C	INCHAR, OUTCHAR
ZYQINFIL	1B10	1) Always
ZYQINFRA	48	INFRAC
ZYQININT	48	ININT
ZYQINIT	B90	Always
ZYQINREA	48	INREAL
ZYQINTEX	208	INTEXT
ZYQLACOS	140	ARCCOS (long)
ZYQLASIN	138	ARCSIN (long)
ZYQLASTI	288	LASTITEM, LETTER, DIGIT, INREAL, INFRAC
ZYQLATAN	128	ARCTAN (long)
ZYQLCOS	158	COS (long)
ZYQLCOSH	108	COSH (long)
ZYQLCOTN	158	COT (long)
ZYQLDIG	104	Always
ZYQLEXP	1B8	EXP (long)
ZYQLINEA	D0	LINEAR
ZYQLLG10	140	LOG (long)
ZYQLLN	40	Always
ZYQLLOG	140	LN (long)
ZYQLNMAP	158	Always, DUMP > 1
ZYQLNO	210	Always, DUMP > 1
ZYQLNODT	50	Always, DUMP > 1
ZYQLSIN	158	SIN (long)
ZYQLSINH	108	SINH (long)
ZYQLSQRT	84	SORT (long)

Name	Size (hex)	When present
ZYQLTAN	158	TAN (long)
ZYQLTANH	E0	TANH (long)
ZYQMAINT	30	MAIN (text procedure)
ZYQMAP	478	Always, DUMP > 1
ZYQMAPTR	190	Always, DUMP > 1
ZYQMVCL	68	Always
ZYQNEGEX	70	NEGEXP
ZYQNEXTE	78	NEXTEV
ZYQNORMA	E8	NORMAL
ZYQODDNM	70	SYMBDUMP compile parm > 0
ZYQOPEN	1B10	1) Always
ZYQOUTAR	4F0	SYMBDUMP compile parm > 0
ZYQOUTBL	530	SYMBDUMP compile parm > 0
ZYQOUTCH	70	OUTCHAR
ZYQOUTFR	28	OUTFRAC
ZYQOUTFX	28	OUTFIX
ZYQOUTIM	2A8	Always
ZYQOUTIN	28	OUTINT
ZYQOUTIO	168	SYMBDUMP compile parm > 0
ZYQOUTOC	170	SYMBDUMP compile parm > 0
ZYQOUTPO	108	SYMBDUMP compile parm > 0
ZYQOUTRE	28	OUTREAL
ZYQOUTSQ	2E8	SYMBDUMP compile parm > 0
ZYQOUTTE	90	OUTTEXT
ZYQOUTVI	280	SYMBDUMP compile parm > 0
ZYQPAGE	1B10	1) Always
ZYQPASSI	98	PASSIVATE
ZYQPF0	68	OUTFRAC, PUTFRAC
ZYQPOISS	158	POISSON
ZYQPRD	98	OUTFIX, OUTREAL, PUTFIX, PUTREAL
ZYQPRED	28	SIMSET/SIMULATION
ZYQPRINT	1B10	1) Always
ZYQPUTCH	68	PUTCHAR
ZYQPUTFI	320	PUTFIX, OUTFIX
ZYQPUTFR	250	PUTFRAC, OUTFRAC
ZYQPUTIN	228	PUTINT, OUTINT
ZYQPUTRE	338	Always
ZYQQUA	30	Parameter of type REF
ZYQRANDI	48	RANDINT
ZYQRDAT	38	All drawing procedures
ZYQREFER	4A8	Logging support
ZYQRESET	1B10	Always
ZYQRESUM	C8	RESUME
ZYQRTSCM	C40	Always
ZYQRXPI	40	Exponentiation real to real (short)
ZYQSACOS	D8	ARCCOS (short)
ZYQSASIN	D8	ARCSIN (short)
ZYQSATAN	C0	ARCTAN (short)
ZYQSCALE	C0	Always
ZYQSCOS	F0	COS (short)
ZYQSCOSH	C0	COSH (short)
ZYQSCOTN	110	COT (short)
ZYQSETPO	20	SETPOS

Name	Size (hex)	When present
ZYQSEXP	F0	EXP (short)
ZYQSIMSC	438	SIMSET/SIMULATION
ZYQSIMUC	404	SIMULATION
ZYQSIMUL	30	SIMULATION
ZYQSIMUP	180	SIMULATION
ZYQSLG10	E0	LOG(10) (short)
ZYQSLOG	E0	LN (short)
ZYQSNAP	30	Always
ZYQSSIN	F0	SIN (short)
ZYQSSINH	C0	SINH (short)
ZYQSSQRT	88	SQRT (short)
ZYQSTAN	110	TAN, COT (short)
ZYQSTANH	A0	TANH (short)
ZYQSTCDA	128	Always
ZYQSTCNT	1B10 1)	Always
ZYQSTQRE	F18	Always
ZYQSTRIP	60	STRIP
ZYQSUB	58	SUB
ZYQSYN	1B10 1)	Always
ZYQTERM	460	Always
ZYQTERMI	18	TERMINATED
ZYQTERMS	450	SYMBDUMP compile parm > 0
ZYQTIME	18	TIME
ZYQTIMEX	70	Always, Time exit routine
ZYQTRACD	5F0	Tracing is specified
ZYQTRACE	E10	Tracing is specified
ZYQTSPIE	28	Always, Time exit routine
ZYQTVASS	C0	Text value assignment
ZYQTVREL	50	Text value relation
ZYQTXTCM	98	Always
ZYQUNIFO	48	UNIFORM
ZYQUSERX	8	Always, User exit routine
ZYQWAIT	C0	WAIT
ZYQWRITE	1B10 1)	Always