

SC 20155

L7-10.0

Table Search 1 - Format Controlled Decimal

0000	u0001'	
0001	h0030'	store match word
0002	b0031'	
0003	a0146'	1 at 29
0004	y0226'	set = 1 alpha + 1
0005	a0148'	1 at 29
0006	u0008'	
0007	xs0000'	s(1 max + 2 of 1/2 table)
0008	y0137'	set exit
0009	b0152'	Lo 1/2 table
0010	y0057'	
0011	u0025'	
0012	xb6327'	temp n
0013	n0228'	1 at 30
0014	u0041'	
0015	z0000'	bit ctr
0016	xb0000'	1 at 15
0017	z0000'	
	,0000001'	
0018	7www0000'	mask
0019	xy0000'	1 at 14
0020	a0057'	
0021	y0057'	
0022	xb6344'	temp n prime
0023	u0054'	
0024	z0000'	
0025	a0147'	1 at 29
0026	y0112'	to AC
0027	y0106'	to AB
0028	u0031'	
0029	z0000'	
0030	z0000'	match word
0031	xb0000'	alpha + 1 n at 29 r to here

0032	h0204'	n at 29
0033	n0019'	1 at 14 = n at 15
0034	xc6327'	to temp n
0035	u0036'	
0036	c0015'	set bit ctr = 0
0037	u0012'	
0038	xz0002'	2 at 29
	,0000002'	
0039	00000002'	1 at 30
0040	00000000'	
0041	xh6327'	temp n
0042	t0143'	to inc bit ctr
0043	b0015'	bit ctr
0044	a0016'	1 at 15
0045	h0015'	bit ctr
0046	e0018'	7www0000
0047	s0162'	12 at 15
0048	t0012'	
0049	b0214'	3wwj
0050	e0015'	bit ctr
0051	s0123'	2 at 29
0052	t0153'	
0053	b0204'	n at 29
0054	m0219'	1 at 1 = n at 30 = $1/2n$ at 29
0055	a0134'	1 at 30 round
0056	e0214'	3wwj
0057	h0000'	store in $1/2$ table
0058	xh6344'	temp n
0059	s0038'	2 at 29
0060	t0207'	
0061	b0147'	1 at 29
0062	u0020'	
0063	z0000'	

0100	b0000'	next word of list
0101	s0030'	match
0102	t0112'	to m greater than t
0103	s0039'	1 at 30
0104	t0135'	to t = m
0105	b0100'	m less than t
0106	s0000'	next 1/2 value
0107	y0100'	
0108	s0151'	b(lo of list)
0109	t0131'	to beyond low limit
0110	b0146'	1 at 29 in range
0111	u0125'	
0112	b0000'	
0113	a0100'	
0114	y0100'	
0115	s0201'	b(1 max + 1 of list)
0116	t0110'	to in range
0117	b0203'	b(1 max + 1 of list)
0118	s0147'	1 at 29
0119	u0121'	
0120	z0000'	
0121	y0100'	
0122	u0124'	
0123	xz0002'	2 at 29
0124	b0146'	1 at 29
0125	a0106'	AB
0126	y0112'	AC
0127	y0106'	AB
0128	s0007'	s(1 max + 2 of 1/2)
0129	t0100'	to next word
0130	xz0000'	error stop
0131	b0160'	lo of list

0132	u0121'	
0133	xz0001'	1 at 29
	,0000001'	
0134	00000002'	1 at 30
0135	b0100'	t = m
0136	e0215'	3wwj
0137	u0000'	exit
0138	b0057'	
0139	y0140'	
0140	b0000'	1st 1/2 value
0141	xs6344'	temp n prime
0142	u0163'	
0143	b0015'	bit ctr inc bit ctr
0144	a0202'	1 at 15 + 1 at 29
0145	u0045'	
0146	xz0001'	1 at 29
0147	xz0001'	1 at 29
0148	xz0001'	1 at 29
0149	e0214'	3wwj
0150	u0156'	
0151	xb0000'	b(lo of list)
0152	z0247'	lo of 1/2 table
0153	b0204'	n at 29
0154	a0133'	1 at 29
0155	u0158'	
0156	xh6344'	temp n prime
0157	u0138'	
0158	xh6344'	temp n prime
0159	u0054'	
0160	xb0000'	b(lo of list)
0161	z0000'	
0162	xt0000'	12 at 15
0163	t0218'	to error

0200	u0205'	
0201	xb0000'	b(1 max + 1 of list)
0202	xb0001'	1 at 15 + 1 at 29
0203	xb0000'	b(1 max + 1 of list)
0204	z0000'	n at 29
0205	s0148'	1 at 29
0206	u0212'	
0207	b0057'	
0208	a0133'	1 at 29
0209	y0224'	
0210	a0146'	1 at 29
0211	u0221'	
0212	t0226'	to ok
0213	u0216'	
0214	xz6363'	3wwj mask
0215	xz6363'	3wwj "
0216	s0146'	1 at 29
0217	t0226'	to ok
0218	xz0000'	error stop
	,0000001'	
0219	40000000'	1 at 1
0220	z0000'	
0221	y0007'	s(1 max + 2 of 1/2 table)
0222	xc6301'	clear Acc.
0223	u0224'	
0224	c0000'	to last 1/2 value
0225	u0226'	
0226	b0000'	lo of table alpha + 2
0227	u0229'	
	,0000001'	
0228	00000002'	1 at 30
0229	y0151'	to b(lo of list)
0230	u0231'	
0231	y0160'	

0232	a0247'	1st 1/2 value
0233	s0148'	1 at 29
0234	u0235'	
0235	y0100'	
0236	b0151'	lo of list
0237	u0239'	
0238	z0000'	
0239	a0204'	n at 29
0240	u0243'	
0241	z0000'	
0242	z0000'	
0243	y0201'	
0244	u0245'	
0245	y0203'	
0246	u0100'	
	,0000013'	
0247	00000000'	1/2 table
0248	00000000'	"
0249	00000000'	"
0250	00000000'	"
0251	00000000'	"
0252	00000000'	"
0253	00000000'	"
0254	00000000'	"
0255	00000000'	"
0256	00000000'	"
0257	00000000'	"
0258	00000000'	"
0259	00000000'	"
	.00000000'	