

SC 20151

L1-10.1

Sort 2 - Format Controlled Decimal

0000	h0350'	temp A=M at 15	loM1 at 29
0001	u0019'		
0002	h0138'	AA	set AA
0003	u0048'		
0004	y0054'	Y-1 at 29	set Y-1 at 29
0005	h0055'	temp B=N at 15	
0006	u0007'		
0007	m0350'	M at 15	= MN at 30 = total no. of words
0008	n0058'	1 at 30	= MN at 29
0009	u0026'		
	,0000002'		
0010	00000004'	1 at 29	
0011	www00004'	-1 at 11 + 1 at 29	
0012	y0162'	N at 29	set N at 29
0013	y0163'	N at 29	set N at 29
0014	y0143'	N at 29	set N at 29
0015	n0023'	1 at 13	= N at 11
0016	s0059'	1 at 11	= N-1 at 11
0017	u0040'		
0018	z0000'		
0019	y0205'	lo(M1)	set lo(M1)
0020	b0000'	code word 2	= N at 15, Y at 29
0021	s0307'	1 at 29	= N at 15, Y-1 at 29
0022	u0004'		
	,0000003'		
0023	00040000'	1 at 13	
0024	00000000'		
0025	00010000'	1 at 15	
0026	a0205'	lo(M1)	= lo(Mmax+1) + N
0027	u0032'		
0028	b0204'	lo(Mmax+1 + N)	
0029	s0143'	N at 29	= lo(Mmax + 1)
0030	y0204'	lo(Mmax + 1)	set Mmax + 1
0031	u0100'		to beginning

0032	y0204'	lo(Mmax + 1)	
0033	b0055'	temp B	= N at 15
0034	m0056'	l at 14	= N at 29
0035	u0012'		
0036	b0000'	code word 3	= Mask <u>BQ</u>
0037	u0038'		
0038	h0203'	Mask	set Mask
0039	u0042'		
0040	a0205'	lo(M1)	= lo(M2)
0041	u0002'		
0042	c0207'	Mask	set Mask
0043	u0028'		
	,0000004'		
0044	00000000'		
0045	00000100'	l at 23	
0046	00003wwj'		
0047	00003wwj'		
0048	b0020'	lo + 20	
0049	a0307'	l at 29	= l(code word 3)
0050	y0036'	to BQ	
0051	a0309'	l at 29	=loc of exit
0052	y0220'	exit	set exit
0053	u0036'		
	,0000010'		
0054	00000000'		Y-1 at 29
0055	00000000'	temp B	
0056	00020000'	l at 14	
0057	00000000'		
0058	00000002'	l at 30	
0059	00100000'	l at 11	
0060	00000000'	XX	
0061	00000000'		
0062	00000004'	l at 29	
0063	00000000'	YY	

0100	b0115'	lo (list I)	
0101	y0130'	to AA"	
0102	a0045'	l at 23	= lo (list II)
0103	y0139'	to AB"	
0104	a0054'	Y-1 at 29	lo(Yth word of list II)
0105	y0155'	to BC	
0106	s0221'	l at 23	lo(Yth word of list I)
0107	y0336'	to BE	
0108	y0144'	to BB	
0109	b0138'	AA	lo(Mn)
0110	a0025'	l at 15	
0111	h0126'	AA prime	
0112	a0162'	N at 29	lo(Mn + 1)
0113	c0135'	AB prime	
0114	u0126'		to AA prime
0115	z0400'		tpo list I
0116	b0138'	AA	here for our of order
0117	h0060'	to XX	
0118	u0119'		
0119	a0162'	N at 29	
0120	h0063'	to YY	<u>AF</u>
0121	a0300'	C at 15	
0122	c0201'	to AS	
0123	b0252'	lo(list I)	
0124	y0303'	HE prime	
0125	u0128'		
0126	b0000'	[Mn]	<u>AA prime</u>
0127	u0130'		
0128	y0200'	AS prime	
0129	u0259'		
0130	c0000'	list I	<u>AA"</u>
0131	u0135'		

0132	xz0000'		temp 2	
0133	b0319'	AD		
0134	u0246'			
0135	b0000'	[M n+1]		<u>AB prime</u>
0136	u0139'			
	,0000002'			
0137	00000000'			
0138	00000000'			AA
0139	c0000'	list II		<u>AB''</u>
0140	b0126'	AA prime		
0141	a0206'	-1 at 11 + 1 at 29		
0142	u0147'			
0143	z0000'	N at 29		
0144	b0000'	list I, Yth word		<u>BB</u>
0145	e0203'	mask		
0146	u0154'			
0147	h0126'	AA prime		
0148	a0163'	N at 29		
0149	h0135'	to AB prime		
0150	t0144'		to BB	
0151	b0130'	AA''		
0152	a0010'	l at 29		
0153	u0158'			
0154	c0305'		temp 1	
0155	b0000'	list II, Yth word		<u>BC</u>
0156	e0207'	mask		
0157	u0253'			
0158	y0130'			
0159	a0045'	l at 23		
0160	y0139'			
0161	u0126'			
	,0000002'			
0162	00000000'	N at 29		
0163	00000000'	N at 29		

0200	b0000'	list I	<u>AS prime</u>
0201	c0000'	loc. [Mn+1]	<u>AS prime</u>
0202	u0222'		
	,00000006'		
0203	00000000'		mask
0204	00000000'		lo (Mmax + 1)
0205	00000000'		lo (M1)
0206	www00004'		-1 at 11 + 1 at 29
0207	00000000'		mask
0208	00000000'		
0209	b0138'	AA	increment here
0210	u0212'		
0211	z0000'		
0212	a0162'	N at 29	
0213	u0216'		
0214	z0000'		
0215	z0000'		
0216	h0138'	AA	
0217	e0046'	3wwj	
0218	s0204'	lo (Mmax + 1)	
0219	t0100'		to beginning
0220	u0000'	exit	
0221	xz0100'		1 at 23
0222	b0201'	AS	
0223	u0241'		
0224	b0060'	XX	here for lines 1
0225	u0226'		
0226	s0162'	N at 29	
0227	u0231'		
0228	b0200'	AS prime	
0229	a0308'	1 at 29	
0230	u0235'		
0231	h0060'	to XX	

0232	e0047'	3wwj	
0233	s0205'	lo (M1)	
0234	u0237'		
0235	y0200'		
0236	u0200'		
0237	t0310'	to AG	
0238	b0060'	XX	
0239	a0025'	l at 15	
0240	u0250'		
0241	a0206'	-l at 11 + l at 29	
0242	u0243'		
0243	h0201'		
0244	t0224'		to finis number 1
0245	u0228'		
0246	a0011'	-l at 11 + l at 29	
0247	h0319'	to AD	
0248	t0209'		to increment
0249	u0346'		
0250	c0301'		
0251	u0301'		
0252	z0400'		Lo i I)
0253	h0132'	temp 2	
0254	s0305'	temp 1	
0255	t0116'		to out of order
0256	u0209'	to increment	
0257	z0000'		
0258	z0000'		
0259	a0045'	l at 23	
0260	y0318'	to AD prime	
0261	u0200'	to AS prime	
	,0000003'		
0262	00000000'		
0263	000k0000'		C at 15

0300	000k0000'		C at 15	
0301	b0000'	Mn-1		<u>AE</u>
0302	u0303'			
0303	c0000'	list I		<u>AE prime</u>
0304	u0315'			
	,0000005'			
0305	00000000'		temp 1	
0306	00000000'			
0307	00000004'		1 at 29	
0308	00000004'		1 at 29	
0309	00000004'		1 at 29	
0310	b0060'	XX		<u>AG</u>
0311	u0312'			
0312	a0162'	N at 29		
0313	a0263'	C at 15		
0314	u0333'			
0315	b0301'	AE		
0316	a0352'	-1 at 11 + 1 at 29		
0317	u0322'			
0318	b0000'	list II		<u>AD prime</u>
0319	c0000'	[Mn]		<u>AD</u>
0320	u0133'			
0321	z0000'			
0322	h0301'	AE		
0323	t0336'		to finis number 2	
0324	b0303'			
0325	a0062'			
0326	u0331'			
0327	b0063'	YY		
0328	s0143'	N at 29		
0329	u0120'		AF	
0330	z0000'			
0331	c0303'			

0332 u0301' AE
0333 c0319' to AD
0334 u0318' to AD prime
0335 z0000' here for finis 2
0336 b0000' list I Yth word BE
0337 u0338'
0338 e0203' mask
0339 u0340'
0340 c0305' temp 1
0341 u0353'
,0000004'
0342 00000000'
0343 00000000'
0344 00000000'
0345 00000000'
0346 b0318' AD
0347 u0359'
,0000005'
0348 00000000'
0349 00000000'
0350 00000000' temp A
0351 00000000'
0352 www00004' -1 at 11 + 1 at 29
0353 b0132' temp 2
0354 s0305' temp 1
0355 t0327'
0356 u0310' to AG
0357 z0000'
0358 z0000'
0359 a0010' 1 at 29
0360 h0318' to AD prime
0361 u0318' to AD prime
.0000000'