

SC 20107

D1-15.0

Matrix Transpose 1 - Format Controlled Decimal

0000	b0000'	n at 15 and Mo at 29	
0001	y0063'		
0002	y0061'		
0003	y0113'		
0004	e0140'	lw0000	save n at 15
0005	m0139'	l at 14	
0006	h0060'		n at 29
0007	a0144'	l at 29	
0008	h0157'		(n+1) at 29
0009	u0050'		
0010	y0039'		Ti(j+1)
0011	s0061'	Mo+n	
0012	t0039'		move next element
0013	b0063'	address of Mij	
0014	a0157'	n+1	
0015	u0027'		
0016	b0045'	address of Mij	
0017	a0060'	n	
0018	u0019'		
0019	y0048'	M(i+n)j	
0020	u0023'		
0021	b0000'		
	,0000001'		
0022	00000008'		
0023	y0045'		M(i+n)j
0024	b0039'	address of Tij	
0025	a0147'	l at 29	
0026	u0031'		
0027	y0045'	address of Mij	
0028	y0039'	address of Tij	
0029	y0063'	address of Mij	
0030	u0033'		
0031	y0046'		Ti(j+1)

0032	u0010'		
0033	b0061'	Mo	
0034	a0060'	n	
0035	h0061'	Mo+n	
0036	b0058'	column counter	
0037	s0145'	1 at 29	
0038	u0042'		
0039	b0000'		
0040	h0062'		
0041	u0045'		
0042	t0000'		exit
0043	h0058'	column counter - 1	
0044	u0016'		
0045	b0000'		
0046	h0000'		
0047	b0062'		
0048	h0000'		
0049	u0016'		
0050	s0022'	2 at 29	
0051	h0058'		(n-1) at 29
0052	b0000'	alpha + 2	
0053	a0145'	1 at 29	
0054	y0100'		alpha + 3
0055	a0145'	1 at 29	
0056	y0042'		alpha + 4, set exit
0057	u0100'		
	,0000003'		
0058	00000000'		(n-1) at 29
0059	00000000'		
0060	00000000'		
0061	b0000'		
	,0000002'		
0062	00000000'		
0063	00000000'		Mij

0100	b0000'	To at 29	
0101	y0114'		
0102	s0063'	Mo at 29	(To-Mo) at 29
0103	t0106'		To not equal Mo
0104	s0145'	1 at 29	
0105	t0152'		To equal Mo
0106	b0060'	n at 29	
0107	n0058'	(n-1) at 29	
0108	m0137'		(n-1) at 29
0109	a0063'	Mo at 29	
0110	a0146'	1 at 29	
0111	y0021'		Mo+(n**2)-n+1
0112	u0113'		
0113	b0000'	M(i+n)j	
0114	h0000'	Ti(j+1)	Mij to Tij
0115	u0128'		
0116	b0058'	n-1	column counter
0117	s0146'	1 at 29	
0118	h0058'	column counter - 1	
0119	t0042'		to exit
0120	u0122'		traspose next column
0121	z0000'		
0122	b0063'	address of Mlj	
0123	a0145'	1 at 29	
0124	y0063'	address of Ml(j+1)	
0125	y0113'	" " "	
0126	b0021'	address of Mn(1+j)	
0127	u0131'		
0128	b0114'	address of Tij	
0129	a0144'	1 at 29	
0130	u0135'		
0131	a0146'	1 at 29	

0132	h0021'	Mn(1+j+1)	
0133	u0113'		
0134	z0000'		
0135	y0114'	address of Ti(j+1)	
0136	u0141'		
	,0000004'		
0137	20000000'		
0138	00000000'		
0139	00020000'		
0140	001w0000'		
0141	b0113'	address of Mij	
0142	a0060'	n	
0143	u0148'		
0144	xz0001'		
0145	xz0001'		
0146	xz0001'		
0147	xz0001'		
0148	y0113'	address of M(i+n)j	
0149	s0021'	Mo+n - Mn(i+j)	
0150	t0113'		move next element
0151	u0116'		to test for end
0152	b0063'	Mo	
0153	u0027'		
0154	z0000'		
0155	z0000'		
0156	z0000'		
0157	z0000'		n+1
	.0000000'		