

Comparison of DMIS codes

Sandvik actual 2007-10-24	dif	StepTools C 2007-10-30	comments on StepTools C 2007-10-30
DMISMN/'Dallas_Boeing_and_Sandvik2.dmi'		DMISMN/'Dallas_Boeing_and_Sandvik.dmi'	
\$\$ AP-238 STEP-NC PROGRAM		\$\$ AP-238 STEP-NC PROGRAM	
\$\$ Generated: 2007-10-24T17:52:16-04:00		\$\$ Generated: 2007-10-30T11:31:04-04:00	
V(0)=VFORM/ALL		V(0)=VFORM/ALL	
DISPLY/TERM,DMIS,V(0),STOR,DMIS,V(0)		DISPLY/TERM,DMIS,V(0),STOR,DMIS,V(0)	
FILNAM/'Dallas_Boeing_and_Sandvik.dmi'		FILNAM/'Dallas_Boeing_and_Sandvik.dmi'	
WKPLAN/XYPLAN		WKPLAN/XYPLAN	
UNITS/MM, ANGDEC		UNITS/MM, ANGDEC	
DECPL/ALL,4		DECPL/ALL,4	
D(0)=DATSET/MCS		D(0)=DATSET/MCS	
MODE/PROG,MAN		MODE/PROG,MAN	
PRCOMP/ON		PRCOMP/ON	
S(Z1_1)=SNSDEF/PROBE,FIXED,CART,0,0,-30,0,0,-1,6		S(Z1_1)=SNSDEF/PROBE,FIXED,CART,0,0,-30,0,0,-1,6	
SNSLCT/S(Z1_1)		SNSLCT/S(Z1_1)	
SNSSET/APPRCH,3.00000		SNSSET/APPRCH,3.00000	
SNSSET/RETRCT,3.00000		SNSSET/RETRCT,3.00000	
\$\$RECALL/DA(BASE_AL)			
\$\$ -----			
\$\$ TODO: Declare the datums			
MODE/MAN		MODE/MAN	
		\$\$ INITIAL DATUM SETUP: A	
F(PL1)=FEAT/PLANE,CART,0,0,0,0,1	X	F(TEMP_DATUM_A) = FEAT/PLANE, CART, -47.169416, 138.084921, -45.5, 0, 0, 1	Since we are in manual mode, it should not matter information we use as long as the direction is right.
TEXT/MAN,'Measure plane with 3 points'		TEXT/MAN,'Measure plane, 3 points'	
MEAS/PLANE,F(PL1),3		MEAS/PLANE, F(TEMP_DATUM_A), 3	
ENDMES		ENDMES	
		\$\$ INITIAL DATUM SETUP: B	
		\$\$ NOTE: datum has more than one face, using first	
F(CI1)=FEAT/CIRCLE,INNER,CART,0,0,0,0,0,1,37.4	X	F(TEMP_DATUM_B) = FEAT/CYLNRD,INNER,CART, 0, 0, -43, 0, 0, 1, 37.43849	Since we are in manual mode, it should not matter information we use as long as the direction is right.
TEXT/MAN,'Measure circle with 3 points'		TEXT/MAN,'Measure circle, 3 points'	
MEAS/CIRCLE,F(CI1),3		MEAS/CYLNRD, F(TEMP_DATUM_B), 3	
ENDMES		ENDMES	
		\$\$ INITIAL DATUM SETUP: C	
F(LI1)=FEAT/LINE,UNBND,CART,0,138,0,1,0,0,1,0	X	F(TEMP_DATUM_C) = FEAT/PLANE, CART, 32.830584, 138.084921, -50, 0, 1, 0	We used a 2 point "LINE" for initial datums.
TEXT/MAN,'Measure line with 2 points'		TEXT/MAN,'Measure plane, 3 points'	
MEAS/LINE,F(LI1),2	X	MEAS/PLANE, F(TEMP_DATUM_C), 3	
ENDMES		ENDMES	
DATDEF/FA(PL1),DAT(TA)		DATDEF/FA(TEMP_DATUM_A),DAT(TA)	
DATDEF/FA(CI1),DAT(TB)		DATDEF/FA(TEMP_DATUM_B),DAT(TB)	
DATDEF/FA(LI1),DAT(TC)		DATDEF/FA(TEMP_DATUM_C),DAT(TC)	
\$\$			
			define datums and coordinate system
D(CSYS1)=DATSET/DAT(TA),ZDIR,ZORIG,DAT(TC),XDIR,DAT(TB),XORIG,YORIG	X		We used line to define TC, then XDIR is the direction of the line. If using plane to define TC, then YDIR would be the direction of the plane (see line 260)
D(CSYS2)=TRANS/ZORIG,45.50000	X		transfer origin to part origin
MODE/PROG,MAN		MODE/PROG,MAN	
GOTO/0.00000,158.00000,20.00000	X		goto safe height after preliminary measurements
GOTO/-93.00000,-61.00000,20.00000	X		see comment below
\$\$ -----		\$\$ -----	
\$\$ Measuring plane feature for:		\$\$ Measuring plane feature for:	
PLANE_TOLERANCE_FEATURE_83180		PLANE_TOLERANCE_FEATURE_83188	
\$\$		\$\$	
F(PLANE_TOLERANCE_FEATURE_83180) = FEAT/PLANE, CART, -44.635331, -90.94355, -45.5, 0, 0, 1		F(PLANE_TOLERANCE_FEATURE_83188) = FEAT/PLANE, CART, -44.635331, -90.94355, -45.5, 0, 0, 1	

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MEAS/PLANE, F(PLANE_TOLERANCE_FEATURE_83180), 15		MEAS/PLANE, F(PLANE_TOLERANCE_FEATURE_83188), 15	
\$\$ Workingstep: Plane probe 0, 0 WS 57		\$\$ Workingstep: Plane probe 0, 0 WS 57	
\$\$ GOTO/41.172622,-182.790079,-30.500002	X	GOTO/0,0,30	goto safe location above 1st point: GOTO/-93.170897,-60.936403,30
GOTO/-93.170897,-60.936403,-5.5		GOTO/-93.170897,-60.936403,-5.5	These movements only needed when obstacle present inbetween locations
GOTO/-93.170897,-60.936403,-35.5		GOTO/-93.170897,-60.936403,-35.5	These type of movement is not needed -covered by APPRCH and RETRCT command at the top
PTMEAS/CART, -93.170897, -60.936403, -45.5, 0, 0, 1		PTMEAS/CART, -93.170897, -60.936403, -45.5, 0, 0, 1	
GOTO/-93.170897,-60.936403,-5.5		GOTO/-93.170897,-60.936403,-5.5	These movements only needed when obstacle present inbetween locations
\$\$ Workingstep: Plane probe 0, 1 WS 58		\$\$ Workingstep: Plane probe 0, 1 WS 58	
GOTO/-67.576758,-60.936403,-5.5		GOTO/-67.576758,-60.936403,-5.5	These movements only needed when obstacle present inbetween locations
GOTO/-67.576758,-60.936403,-35.5		GOTO/-67.576758,-60.936403,-35.5	These type of movement is not needed -covered by APPRCH and RETRCT command at the top
PTMEAS/CART, -67.576758, -60.936403, -45.5, 0, 0, 1		PTMEAS/CART, -67.576758, -60.936403, -45.5, 0, 0, 1	
GOTO/-67.576758,-60.936403,-5.5		GOTO/-67.576758,-60.936403,-5.5	
\$\$ Workingstep: Plane probe 0, 2 WS 59		\$\$ Workingstep: Plane probe 0, 2 WS 59	
GOTO/-41.98262,-60.936403,-5.5		GOTO/-41.98262,-60.936403,-5.5	
GOTO/-41.98262,-60.936403,-35.5		GOTO/-41.98262,-60.936403,-35.5	
PTMEAS/CART, -41.98262, -60.936403, -45.5, 0, 0, 1		PTMEAS/CART, -41.98262, -60.936403, -45.5, 0, 0, 1	
GOTO/-41.98262,-60.936403,-5.5		GOTO/-41.98262,-60.936403,-5.5	
\$\$ Workingstep: Plane probe 0, 3 WS 60		\$\$ Workingstep: Plane probe 0, 3 WS 60	
GOTO/-16.388481,-60.936403,-5.5		GOTO/-16.388481,-60.936403,-5.5	
GOTO/-16.388481,-60.936403,-35.5		GOTO/-16.388481,-60.936403,-35.5	
PTMEAS/CART, -16.388481, -60.936403, -45.5, 0, 0, 1		PTMEAS/CART, -16.388481, -60.936403, -45.5, 0, 0, 1	
GOTO/-16.388481,-60.936403,-5.5		GOTO/-16.388481,-60.936403,-5.5	
\$\$ Workingstep: Plane probe 0, 4 WS 61		\$\$ Workingstep: Plane probe 0, 4 WS 61	
GOTO/9.205658,-60.936403,-5.5		GOTO/9.205658,-60.936403,-5.5	
GOTO/9.205658,-60.936403,-35.5		GOTO/9.205658,-60.936403,-35.5	
PTMEAS/CART, 9.205658, -60.936403, -45.5, 0, 0, 1		PTMEAS/CART, 9.205658, -60.936403, -45.5, 0, 0, 1	
GOTO/9.205658,-60.936403,-5.5		GOTO/9.205658,-60.936403,-5.5	
\$\$ Workingstep: Plane probe 1, 0 WS 62		\$\$ Workingstep: Plane probe 1, 0 WS 62	
GOTO/-93.170897,-82.132138,-5.5		GOTO/-93.170897,-82.132138,-5.5	
GOTO/-93.170897,-82.132138,-35.5		GOTO/-93.170897,-82.132138,-35.5	
PTMEAS/CART, -93.170897, -82.132138, -45.5, 0, 0, 1		PTMEAS/CART, -93.170897, -82.132138, -45.5, 0, 0, 1	
GOTO/-93.170897,-82.132138,-5.5		GOTO/-93.170897,-82.132138,-5.5	
\$\$ Workingstep: Plane probe 1, 3 WS 63		\$\$ Workingstep: Plane probe 1, 3 WS 63	
GOTO/-16.388481,-82.132138,-5.5		GOTO/-16.388481,-82.132138,-5.5	
GOTO/-16.388481,-82.132138,-35.5		GOTO/-16.388481,-82.132138,-35.5	
PTMEAS/CART, -16.388481, -82.132138, -45.5, 0, 0, 1		PTMEAS/CART, -16.388481, -82.132138, -45.5, 0, 0, 1	
GOTO/-16.388481,-82.132138,-5.5		GOTO/-16.388481,-82.132138,-5.5	
\$\$ Workingstep: Plane probe 1, 4 WS 64		\$\$ Workingstep: Plane probe 1, 4 WS 64	
GOTO/9.205658,-82.132138,-5.5		GOTO/9.205658,-82.132138,-5.5	
GOTO/9.205658,-82.132138,-35.5		GOTO/9.205658,-82.132138,-35.5	
PTMEAS/CART, 9.205658, -82.132138, -45.5, 0, 0, 1		PTMEAS/CART, 9.205658, -82.132138, -45.5, 0, 0, 1	
GOTO/9.205658,-82.132138,-5.5		GOTO/9.205658,-82.132138,-5.5	
\$\$ Workingstep: Plane probe 2, 0 WS 65		\$\$ Workingstep: Plane probe 2, 0 WS 65	
GOTO/-93.170897,-103.327873,-5.5		GOTO/-93.170897,-103.327873,-5.5	
GOTO/-93.170897,-103.327873,-35.5		GOTO/-93.170897,-103.327873,-35.5	
PTMEAS/CART, -93.170897, -103.327873, -45.5, 0, 0, 1		PTMEAS/CART, -93.170897, -103.327873, -45.5, 0, 0, 1	
GOTO/-93.170897,-103.327873,-5.5		GOTO/-93.170897,-103.327873,-5.5	
\$\$ Workingstep: Plane probe 2, 3 WS 66		\$\$ Workingstep: Plane probe 2, 3 WS 66	
GOTO/-16.388481,-103.327873,-5.5		GOTO/-16.388481,-103.327873,-5.5	
GOTO/-16.388481,-103.327873,-35.5		GOTO/-16.388481,-103.327873,-35.5	

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PTMEAS/CART, -16.388481, -103.327873, -45.5, 0, 0, 1		PTMEAS/CART, -16.388481, -103.327873, -45.5, 0, 0, 1	
GOTO/-16.388481,-103.327873,-5.5		GOTO/-16.388481,-103.327873,-5.5	
\$\$ Workingstep: Plane probe 2, 4 WS 67		\$\$ Workingstep: Plane probe 2, 4 WS 67	
GOTO/9.205658,-103.327873,-5.5		GOTO/9.205658,-103.327873,-5.5	
GOTO/9.205658,-103.327873,-35.5		GOTO/9.205658,-103.327873,-35.5	
PTMEAS/CART, 9.205658, -103.327873, -45.5, 0, 0, 1		PTMEAS/CART, 9.205658, -103.327873, -45.5, 0, 0, 1	
GOTO/9.205658,-103.327873,-5.5		GOTO/9.205658,-103.327873,-5.5	
\$\$ Workingstep: Plane probe 3, 0 WS 68		\$\$ Workingstep: Plane probe 3, 0 WS 68	
GOTO/-93.170897,-124.523608,-5.5		GOTO/-93.170897,-124.523608,-5.5	
GOTO/-93.170897,-124.523608,-35.5		GOTO/-93.170897,-124.523608,-35.5	
PTMEAS/CART, -93.170897, -124.523608, -45.5, 0, 0, 1		PTMEAS/CART, -93.170897, -124.523608, -45.5, 0, 0, 1	
GOTO/-93.170897,-124.523608,-5.5		GOTO/-93.170897,-124.523608,-5.5	
\$\$ Workingstep: Plane probe 3, 4 WS 69		\$\$ Workingstep: Plane probe 3, 4 WS 69	
GOTO/9.205658,-124.523608,-5.5		GOTO/9.205658,-124.523608,-5.5	
GOTO/9.205658,-124.523608,-35.5		GOTO/9.205658,-124.523608,-35.5	
PTMEAS/CART, 9.205658, -124.523608, -45.5, 0, 0, 1		PTMEAS/CART, 9.205658, -124.523608, -45.5, 0, 0, 1	
GOTO/9.205658,-124.523608,-5.5		GOTO/9.205658,-124.523608,-5.5	
\$\$ Workingstep: Plane probe 4, 0 WS 70		\$\$ Workingstep: Plane probe 4, 0 WS 70	
GOTO/-93.170897,-145.719344,-5.5		GOTO/-93.170897,-145.719344,-5.5	
GOTO/-93.170897,-145.719344,-35.5		GOTO/-93.170897,-145.719344,-35.5	
PTMEAS/CART, -93.170897, -145.719344, -45.5, 0, 0, 1		PTMEAS/CART, -93.170897, -145.719344, -45.5, 0, 0, 1	
GOTO/-93.170897,-145.719344,-5.5		GOTO/-93.170897,-145.719344,-5.5	
\$\$ Workingstep: Plane probe 4, 4 WS 71		\$\$ Workingstep: Plane probe 4, 4 WS 71	
GOTO/9.205658,-145.719344,-5.5		GOTO/9.205658,-145.719344,-5.5	
GOTO/9.205658,-145.719344,-35.5		GOTO/9.205658,-145.719344,-35.5	
PTMEAS/CART, 9.205658, -145.719344, -45.5, 0, 0, 1		PTMEAS/CART, 9.205658, -145.719344, -45.5, 0, 0, 1	
GOTO/9.205658,-145.719344,-5.5		GOTO/9.205658,-145.719344,-5.5	
ENDMES		ENDMES	
DATDEF/FA(PLANE_TOLERANCE_FEATURE_83180),DAT(A)		DATDEF/FA(PLANE_TOLERANCE_FEATURE_83188),DAT(A)	
D(CSYS3)=DATSET/DAT(A),ZDIR,ZORIG	X		define datums and coordinate system
D(CSYS4)=TRANS/ZORIG,45.50000	X		transfer origin to part origin
T(tol__84712) = TOL/FLAT,0.05		T(tol__84720) = TOL/FLAT,0.05	
OUTPUT/FA(PLANE_TOLERANCE_FEATURE_83180), TA(tol__84712)		OUTPUT/FA(PLANE_TOLERANCE_FEATURE_83188), TA(tol__84720)	
		\$\$ NOTE: feature has more than one face, using first	
\$\$ NOTE: feature has more than one face, using first		\$\$ NOTE: feature has more than one face, using first	
\$\$ -----		\$\$ -----	
\$\$ Measuring plane feature for: CYLINDRICAL_TOLERANCE_FEATURE_84714		\$\$ Measuring plane feature for: CYLINDRICAL_TOLERANCE_FEATURE_84722	
\$\$		\$\$	
F(CYLINDRICAL_TOLERANCE_FEATURE_84714) = FEAT/CYLNDR,INNER,CART, 0, 0, -43, 0, 0, -1, 37.43849		F(CYLINDRICAL_TOLERANCE_FEATURE_84722) = FEAT/CYLNDR,INNER,CART, 0, 0, -43, 0, 0, -1, 37.43849	
MEAS/CYLNDR, F(CYLINDRICAL_TOLERANCE_FEATURE_84714), 14		MEAS/CYLNDR, F(CYLINDRICAL_TOLERANCE_FEATURE_84722), 14	
\$\$ Workingstep: Plane probe 0, 0 WS 72		\$\$ Workingstep: Plane probe 0, 0 WS 72	
GOTO/0,8.719245,-5.333333		GOTO/0,8.719245,-5.333333	
GOTO/0,8.719245,-45.333333		GOTO/0,8.719245,-45.333333	
PTMEAS/CART, 0, 18.719245, -45.333333, 0, -1, 0		PTMEAS/CART, 0, 18.719245, -45.333333, 0, -1, 0	
GOTO/0,8.719245,-5.333333		GOTO/0,8.719245,-5.333333	
\$\$ Workingstep: Plane probe 0, 1 WS 73		\$\$ Workingstep: Plane probe 0, 1 WS 73	
GOTO/6.816981,5.436361,-5.333333		GOTO/6.816981,5.436361,-5.333333	
GOTO/6.816981,5.436361,-45.333333		GOTO/6.816981,5.436361,-45.333333	
PTMEAS/CART, 14.635295, 11.671259, -45.333333, -0.781831, -0.62349, 0		PTMEAS/CART, 14.635295, 11.671259, -45.333333, -0.781831, -0.62349, 0	
GOTO/6.816981,5.436361,-5.333333		GOTO/6.816981,5.436361,-5.333333	
\$\$ Workingstep: Plane probe 0, 2 WS 74		\$\$ Workingstep: Plane probe 0, 2 WS 74	
GOTO/8.500636,-1.940214,-5.333333		GOTO/8.500636,-1.940214,-5.333333	
GOTO/8.500636,-1.940214,-45.333333		GOTO/8.500636,-1.940214,-45.333333	

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PTMEAS/CART, 18.249915, -4.165423, -45.333333, -0.974928, 0.222521, 0		PTMEAS/CART, 18.249915, -4.165423, -45.333333, -0.974928, 0.222521, 0	
GOTO/8.500636,-1.940214,-5.333333		GOTO/8.500636,-1.940214,-5.333333	
\$\$ Workingstep: Plane probe 0, 3 WS 75		\$\$ Workingstep: Plane probe 0, 3 WS 75	
GOTO/3.783139,-7.855768,-5.333333		GOTO/3.783139,-7.855768,-5.333333	
GOTO/3.783139,-7.855768,-45.333333		GOTO/3.783139,-7.855768,-45.333333	
PTMEAS/CART, 8.121976, -16.865456, -45.333333, -0.433884, 0.900969, 0		PTMEAS/CART, 8.121976, -16.865456, -45.333333, -0.433884, 0.900969, 0	
GOTO/3.783139,-7.855768,-5.333333		GOTO/3.783139,-7.855768,-5.333333	
\$\$ Workingstep: Plane probe 0, 4 WS 76		\$\$ Workingstep: Plane probe 0, 4 WS 76	
GOTO/-3.783138,-7.855768,-5.333333		GOTO/-3.783138,-7.855768,-5.333333	
GOTO/-3.783138,-7.855768,-45.333333		GOTO/-3.783138,-7.855768,-45.333333	
PTMEAS/CART, -8.121976, -16.865456, -45.333333, 0.433884, 0.900969, 0		PTMEAS/CART, -8.121976, -16.865456, -45.333333, 0.433884, 0.900969, 0	
GOTO/-3.783138,-7.855768,-5.333333		GOTO/-3.783138,-7.855768,-5.333333	
\$\$ Workingstep: Plane probe 0, 5 WS 77		\$\$ Workingstep: Plane probe 0, 5 WS 77	
GOTO/-8.500635,-1.940214,-5.333333		GOTO/-8.500635,-1.940214,-5.333333	
GOTO/-8.500635,-1.940214,-45.333333		GOTO/-8.500635,-1.940214,-45.333333	
PTMEAS/CART, -18.249914, -4.165423, -45.333333, 0.974928, 0.222521, 0		PTMEAS/CART, -18.249914, -4.165423, -45.333333, 0.974928, 0.222521, 0	
GOTO/-8.500635,-1.940214,-5.333333		GOTO/-8.500635,-1.940214,-5.333333	
\$\$ Workingstep: Plane probe 0, 6 WS 78		\$\$ Workingstep: Plane probe 0, 6 WS 78	
GOTO/-6.81698,5.436361,-5.333333		GOTO/-6.81698,5.436361,-5.333333	
GOTO/-6.81698,5.436361,-45.333333		GOTO/-6.81698,5.436361,-45.333333	
PTMEAS/CART, -14.635295, 11.671259, -45.333333, 0.781831, -0.62349, 0		PTMEAS/CART, -14.635295, 11.671259, -45.333333, 0.781831, -0.62349, 0	
GOTO/-6.81698,5.436361,-5.333333		GOTO/-6.81698,5.436361,-5.333333	
\$\$ Workingstep: Plane probe 1, 0 WS 79		\$\$ Workingstep: Plane probe 1, 0 WS 79	
GOTO/0,8.719245,-7.666667		GOTO/0,8.719245,-7.666667	
GOTO/0,8.719245,-47.666667		GOTO/0,8.719245,-47.666667	
PTMEAS/CART, 0, 18.719245, -47.666667, 0, -1, 0		PTMEAS/CART, 0, 18.719245, -47.666667, 0, -1, 0	
GOTO/0,8.719245,-7.666667		GOTO/0,8.719245,-7.666667	
\$\$ Workingstep: Plane probe 1, 1 WS 80		\$\$ Workingstep: Plane probe 1, 1 WS 80	
GOTO/6.816981,5.436361,-7.666667		GOTO/6.816981,5.436361,-7.666667	
GOTO/6.816981,5.436361,-47.666667		GOTO/6.816981,5.436361,-47.666667	
PTMEAS/CART, 14.635295, 11.671259, -47.666667, -0.781831, -0.62349, 0		PTMEAS/CART, 14.635295, 11.671259, -47.666667, -0.781831, -0.62349, 0	
GOTO/6.816981,5.436361,-7.666667		GOTO/6.816981,5.436361,-7.666667	
\$\$ Workingstep: Plane probe 1, 2 WS 81		\$\$ Workingstep: Plane probe 1, 2 WS 81	
GOTO/8.500636,-1.940214,-7.666667		GOTO/8.500636,-1.940214,-7.666667	
GOTO/8.500636,-1.940214,-47.666667		GOTO/8.500636,-1.940214,-47.666667	
PTMEAS/CART, 18.249915, -4.165423, -47.666667, -0.974928, 0.222521, 0		PTMEAS/CART, 18.249915, -4.165423, -47.666667, -0.974928, 0.222521, 0	
GOTO/8.500636,-1.940214,-7.666667		GOTO/8.500636,-1.940214,-7.666667	
\$\$ Workingstep: Plane probe 1, 3 WS 82		\$\$ Workingstep: Plane probe 1, 3 WS 82	
GOTO/3.783139,-7.855768,-7.666667		GOTO/3.783139,-7.855768,-7.666667	
GOTO/3.783139,-7.855768,-47.666667		GOTO/3.783139,-7.855768,-47.666667	
PTMEAS/CART, 8.121976, -16.865456, -47.666667, -0.433884, 0.900969, 0		PTMEAS/CART, 8.121976, -16.865456, -47.666667, -0.433884, 0.900969, 0	
GOTO/3.783139,-7.855768,-7.666667		GOTO/3.783139,-7.855768,-7.666667	
\$\$ Workingstep: Plane probe 1, 4 WS 83		\$\$ Workingstep: Plane probe 1, 4 WS 83	
GOTO/-3.783138,-7.855768,-7.666667		GOTO/-3.783138,-7.855768,-7.666667	
GOTO/-3.783138,-7.855768,-47.666667		GOTO/-3.783138,-7.855768,-47.666667	
PTMEAS/CART, -8.121976, -16.865456, -47.666667, 0.433884, 0.900969, 0		PTMEAS/CART, -8.121976, -16.865456, -47.666667, 0.433884, 0.900969, 0	
GOTO/-3.783138,-7.855768,-7.666667		GOTO/-3.783138,-7.855768,-7.666667	
\$\$ Workingstep: Plane probe 1, 5 WS 84		\$\$ Workingstep: Plane probe 1, 5 WS 84	
GOTO/-8.500635,-1.940214,-7.666667		GOTO/-8.500635,-1.940214,-7.666667	
GOTO/-8.500635,-1.940214,-47.666667		GOTO/-8.500635,-1.940214,-47.666667	
PTMEAS/CART, -18.249914, -4.165423, -47.666667, 0.974928, 0.222521, 0		PTMEAS/CART, -18.249914, -4.165423, -47.666667, 0.974928, 0.222521, 0	
GOTO/-8.500635,-1.940214,-7.666667		GOTO/-8.500635,-1.940214,-7.666667	
\$\$ Workingstep: Plane probe 1, 6 WS 85		\$\$ Workingstep: Plane probe 1, 6 WS 85	
GOTO/-6.81698,5.436361,-7.666667		GOTO/-6.81698,5.436361,-7.666667	
GOTO/-6.81698,5.436361,-47.666667		GOTO/-6.81698,5.436361,-47.666667	
PTMEAS/CART, -14.635295, 11.671259, -47.666667, 0.781831, -0.62349, 0		PTMEAS/CART, -14.635295, 11.671259, -47.666667, 0.781831, -0.62349, 0	
GOTO/-6.81698,5.436361,-7.666667		GOTO/-6.81698,5.436361,-7.666667	
ENDMES		ENDMES	
DATDEF/FA(CYLINDRICAL_TOLERANCE_FEATURE_84714),DAT(B)		DATDEF/FA(CYLINDRICAL_TOLERANCE_FEATURE_84722),DAT(B)	

Comparison of DMIS codes

Sandvik actual 2007-10-24	dif	StepTools C 2007-10-30	comments on StepTools C 2007-10-30
D(CSYS5)=DATSET/DAT(A),ZDIR,ZORIG,DAT(B),XORIG,YORIG	X		define datums and coordinate system
D(CSYS6)=TRANS/ZORIG,45.50000	X		transfer origin to part origin
T(tol_86123) = TOL/PERP,0.25,DAT(A)		T(tol_86131) = TOL/PERP,0.25,DAT(A)	
OUTPUT/FA(CYLINDRICAL_TOLERANCE_FEATURE_84714), TA(tol_86123)		OUTPUT/FA(CYLINDRICAL_TOLERANCE_FEATURE_84722), TA(tol_86131)	
T(tol_DIAMETER_86125) = TOL/DIAM,-0.05,0.05		T(tol_DIAMETER_86133) = TOL/DIAM,-0.05,0.05	
OUTPUT/FA(CYLINDRICAL_TOLERANCE_FEATURE_84714),TA(tol_DIAMETER_86125)		OUTPUT/FA(CYLINDRICAL_TOLERANCE_FEATURE_84722), TA(tol_DIAMETER_86133)	
\$\$ -----		\$\$ -----	
\$\$ Measuring plane feature for: PLANE_TOLERANCE_FEATURE_86131		\$\$ Measuring plane feature for: PLANE_TOLERANCE_FEATURE_86139	
\$\$		\$\$	
F(PLANE_TOLERANCE_FEATURE_86131) = FEAT/PLANE, CART, -49.816076, 138.084921, -25, 0, 1, 0		F(PLANE_TOLERANCE_FEATURE_86139) = FEAT/PLANE, CART, -49.816076, 138.084921, -25, 0, 1, 0	
MEAS/PLANE, F(PLANE_TOLERANCE_FEATURE_86131), 6		MEAS/PLANE, F(PLANE_TOLERANCE_FEATURE_86139), 6	
\$\$ Workingstep: Plane probe 0, 0 WS 86		\$\$ Workingstep: Plane probe 0, 0 WS 86	
GOTO/-95.159797,148.084921,0		GOTO/-95.159797,148.084921,0	
GOTO/-95.159797,148.084921,-40		GOTO/-95.159797,148.084921,-40	
PTMEAS/CART, -95.159797, 138.084921, -40, 0, 1, 0		PTMEAS/CART, -95.159797, 138.084921, -40, 0, 1, 0	
GOTO/-95.159797,148.084921,0		GOTO/-95.159797,148.084921,0	
\$\$ Workingstep: Plane probe 0, 1 WS 87		\$\$ Workingstep: Plane probe 0, 1 WS 87	
GOTO/-43.150178,148.084921,0		GOTO/-43.150178,148.084921,0	
GOTO/-43.150178,148.084921,-40		GOTO/-43.150178,148.084921,-40	
PTMEAS/CART, -43.150178, 138.084921, -40, 0, 1, 0		PTMEAS/CART, -43.150178, 138.084921, -40, 0, 1, 0	
GOTO/-43.150178,148.084921,0		GOTO/-43.150178,148.084921,0	
\$\$ Workingstep: Plane probe 0, 2 WS 88		\$\$ Workingstep: Plane probe 0, 2 WS 88	
GOTO/8.859441,148.084921,0		GOTO/8.859441,148.084921,0	
GOTO/8.859441,148.084921,-40		GOTO/8.859441,148.084921,-40	
PTMEAS/CART, 8.859441, 138.084921, -40, 0, 1, 0		PTMEAS/CART, 8.859441, 138.084921, -40, 0, 1, 0	
GOTO/8.859441,148.084921,0		GOTO/8.859441,148.084921,0	
\$\$ Workingstep: Plane probe 1, 0 WS 89		\$\$ Workingstep: Plane probe 1, 0 WS 89	
GOTO/-95.159797,148.084921,10		GOTO/-95.159797,148.084921,10	
GOTO/-95.159797,148.084921,-30		GOTO/-95.159797,148.084921,-30	
PTMEAS/CART, -95.159797, 138.084921, -30, 0, 1, 0		PTMEAS/CART, -95.159797, 138.084921, -30, 0, 1, 0	
GOTO/-95.159797,148.084921,10		GOTO/-95.159797,148.084921,10	
\$\$ Workingstep: Plane probe 1, 1 WS 90		\$\$ Workingstep: Plane probe 1, 1 WS 90	
GOTO/-43.150178,148.084921,10		GOTO/-43.150178,148.084921,10	
GOTO/-43.150178,148.084921,-30		GOTO/-43.150178,148.084921,-30	
PTMEAS/CART, -43.150178, 138.084921, -30, 0, 1, 0		PTMEAS/CART, -43.150178, 138.084921, -30, 0, 1, 0	
GOTO/-43.150178,148.084921,10		GOTO/-43.150178,148.084921,10	
\$\$ Workingstep: Plane probe 1, 2 WS 91		\$\$ Workingstep: Plane probe 1, 2 WS 91	
GOTO/8.859441,148.084921,10		GOTO/8.859441,148.084921,10	
GOTO/8.859441,148.084921,-30		GOTO/8.859441,148.084921,-30	
PTMEAS/CART, 8.859441, 138.084921, -30, 0, 1, 0		PTMEAS/CART, 8.859441, 138.084921, -30, 0, 1, 0	
GOTO/8.859441,148.084921,10		GOTO/8.859441,148.084921,10	
ENDMES		ENDMES	
DATDEF/FA(PLANE_TOLERANCE_FEATURE_86131),DAT(C)		DATDEF/FA(PLANE_TOLERANCE_FEATURE_86139),DAT(C)	
D(CSYS7)=DATSET/DAT(A),ZDIR,ZORIG,DAT(C),YDIR,DAT(B),XORIG,YORIG	X		define datums and coordinate system
D(CSYS8)=TRANS/ZORIG,45.50000	X		transfer origin to part origin
			I don't know if DAT(C) should be included here since this tolerance is used on feature 86139, which is DAT(C)?
T(tol_86759) = TOL/PROFS,-0.1,0.1,DAT(A),DAT(B)	X	T(tol_86756) = TOL/PROFS,-0.1,0.1,DAT(A),DAT(B),DAT(C)	
OUTPUT/FA(PLANE_TOLERANCE_FEATURE_86131), TA(tol_86759)		OUTPUT/FA(PLANE_TOLERANCE_FEATURE_86139), TA(tol_86756)	
\$\$ TODO Location dimension: directed_dimensional_location			
\$\$ -----		\$\$ -----	

Comparison of DMIS codes

Sandvik actual 2007-10-24	dif	StepTools C 2007-10-30	comments on StepTools C 2007-10-30
\$\$ Measuring plane feature for: PLANE_TOLERANCE_FEATURE_86761		\$\$ Measuring plane feature for: PLANE_TOLERANCE_FEATURE_86758	
\$\$		\$\$	
F(PLANE_TOLERANCE_FEATURE_86761) = FEAT/PLANE, CART, -44.997715, 133.084921, - 29.8, 0, -1, 0		F(PLANE_TOLERANCE_FEATURE_86758) = FEAT/PLANE, CART, -44.997715, 133.084921, - 29.8, 0, -1, 0	
MEAS/PLANE, F(PLANE_TOLERANCE_FEATURE_86761), 6		MEAS/PLANE, F(PLANE_TOLERANCE_FEATURE_86758), 6	
\$\$ Workingstep: Plane probe 0, 0 WS 92		\$\$ Workingstep: Plane probe 0, 0 WS 92	
GOTO/-90.475253,123.084921,5.666667		GOTO/-90.475253,123.084921,5.666667	
GOTO/-90.475253,123.084921,-34.333333		GOTO/-90.475253,123.084921,-34.333333	
PTMEAS/CART, -90.475253, 133.084921, - 34.333333, 0, -1, 0		PTMEAS/CART, -90.475253, 133.084921, - 34.333333, 0, -1, 0	
GOTO/-90.475253,123.084921,5.666667		GOTO/-90.475253,123.084921,5.666667	
\$\$ Workingstep: Plane probe 0, 2 WS 93		\$\$ Workingstep: Plane probe 0, 2 WS 93	
GOTO/-25.495133,123.084921,5.666667		GOTO/-25.495133,123.084921,5.666667	
GOTO/-25.495133,123.084921,-34.333333		GOTO/-25.495133,123.084921,-34.333333	
PTMEAS/CART, -25.495133, 133.084921, - 34.333333, 0, -1, 0		PTMEAS/CART, -25.495133, 133.084921, - 34.333333, 0, -1, 0	
GOTO/-25.495133,123.084921,5.666667		GOTO/-25.495133,123.084921,5.666667	
\$\$ Workingstep: Plane probe 0, 3 WS 94		\$\$ Workingstep: Plane probe 0, 3 WS 94	
GOTO/6.994927,123.084921,5.666667		GOTO/6.994927,123.084921,5.666667	
GOTO/6.994927,123.084921,-34.333333		GOTO/6.994927,123.084921,-34.333333	
PTMEAS/CART, 6.994927, 133.084921, - 34.333333, 0, -1, 0		PTMEAS/CART, 6.994927, 133.084921, - 34.333333, 0, -1, 0	
GOTO/6.994927,123.084921,5.666667		GOTO/6.994927,123.084921,5.666667	
\$\$ Workingstep: Plane probe 1, 0 WS 95		\$\$ Workingstep: Plane probe 1, 0 WS 95	
GOTO/-90.475253,123.084921,12.833333		GOTO/-90.475253,123.084921,12.833333	
GOTO/-90.475253,123.084921,-27.166667		GOTO/-90.475253,123.084921,-27.166667	
PTMEAS/CART, -90.475253, 133.084921, - 27.166667, 0, -1, 0		PTMEAS/CART, -90.475253, 133.084921, - 27.166667, 0, -1, 0	
GOTO/-90.475253,123.084921,12.833333		GOTO/-90.475253,123.084921,12.833333	
\$\$ Workingstep: Plane probe 1, 2 WS 96		\$\$ Workingstep: Plane probe 1, 2 WS 96	
GOTO/-25.495133,123.084921,12.833333		GOTO/-25.495133,123.084921,12.833333	
GOTO/-25.495133,123.084921,-27.166667		GOTO/-25.495133,123.084921,-27.166667	
PTMEAS/CART, -25.495133, 133.084921, - 27.166667, 0, -1, 0		PTMEAS/CART, -25.495133, 133.084921, - 27.166667, 0, -1, 0	
GOTO/-25.495133,123.084921,12.833333		GOTO/-25.495133,123.084921,12.833333	
\$\$ Workingstep: Plane probe 1, 3 WS 97		\$\$ Workingstep: Plane probe 1, 3 WS 97	
GOTO/6.994927,123.084921,12.833333		GOTO/6.994927,123.084921,12.833333	
GOTO/6.994927,123.084921,-27.166667		GOTO/6.994927,123.084921,-27.166667	
PTMEAS/CART, 6.994927, 133.084921, - 27.166667, 0, -1, 0		PTMEAS/CART, 6.994927, 133.084921, - 27.166667, 0, -1, 0	
GOTO/6.994927,123.084921,12.833333		GOTO/6.994927,123.084921,12.833333	
ENDMES		ENDMES	
T(tol_88510) = TOL/PROFS,- 0.5,0.5,DAT(A),DAT(B),DAT(C)	X	T(tol_LINEAR_DISTANCE_87369) = TOL/DISTWRT,NOMINL,5, -0.2, 0.2, DAT(C)	
OUTPUT/FA(PLANE_TOLERANCE_FEATURE_ 86761), TA(tol_88510)		OUTPUT/FA(PLANE_TOLERANCE_FEATURE_ 86758), TA(tol_LINEAR_DISTANCE_87369)	
\$\$ -----		\$\$ -----	
\$\$ Measuring plane feature for: PLANE_TOLERANCE_FEATURE_87378		\$\$ Measuring plane feature for: PLANE_TOLERANCE_FEATURE_87375	
\$\$		\$\$	
F(PLANE_TOLERANCE_FEATURE_87378) = FEAT/PLANE, CART, 0, 0, -43, 0, 0, 1		F(PLANE_TOLERANCE_FEATURE_87375) = FEAT/PLANE, CART, 0, 0, -43, 0, 0, 1	
MEAS/PLANE, F(PLANE_TOLERANCE_FEATURE_87378), 4		MEAS/PLANE, F(PLANE_TOLERANCE_FEATURE_87375), 4	
\$\$ Workingstep: Plane probe 0, 0 WS 98		\$\$ Workingstep: Plane probe 0, 0 WS 98	
GOTO/-15.81283,15.81283,-3		GOTO/-15.81283,15.81283,-3	
GOTO/-15.81283,15.81283,-33		GOTO/-15.81283,15.81283,-33	
PTMEAS/CART, -15.81283, 15.81283, -43, 0, 0, 1		PTMEAS/CART, -15.81283, 15.81283, -43, 0, 0, 1	
GOTO/-15.81283,15.81283,-3		GOTO/-15.81283,15.81283,-3	
\$\$ Workingstep: Plane probe 0, 4 WS 99		\$\$ Workingstep: Plane probe 0, 4 WS 99	
GOTO/15.81283,15.81283,-3		GOTO/15.81283,15.81283,-3	
GOTO/15.81283,15.81283,-33		GOTO/15.81283,15.81283,-33	
PTMEAS/CART, 15.81283, 15.81283, -43, 0, 0, 1		PTMEAS/CART, 15.81283, 15.81283, -43, 0, 0, 1	
GOTO/15.81283,15.81283,-3		GOTO/15.81283,15.81283,-3	
\$\$ Workingstep: Plane probe 4, 0 WS 100		\$\$ Workingstep: Plane probe 4, 0 WS 100	
GOTO/-15.81283,-15.81283,-3		GOTO/-15.81283,-15.81283,-3	
GOTO/-15.81283,-15.81283,-33		GOTO/-15.81283,-15.81283,-33	

Comparison of DMIS codes

Sandvik actual 2007-10-24	dif	StepTools C 2007-10-30	comments on StepTools C 2007-10-30
PTMEAS/CART, -15.81283, -15.81283, -43, 0, 0, 1		PTMEAS/CART, -15.81283, -15.81283, -43, 0, 0, 1	
GOTO/-15.81283,-15.81283,-3		GOTO/-15.81283,-15.81283,-3	
\$\$ Workingstep: Plane probe 4, 4 WS 101		\$\$ Workingstep: Plane probe 4, 4 WS 101	
GOTO/15.81283,-15.81283,-3		GOTO/15.81283,-15.81283,-3	
GOTO/15.81283,-15.81283,-33		GOTO/15.81283,-15.81283,-33	
PTMEAS/CART, 15.81283, -15.81283, -43, 0, 0, 1		PTMEAS/CART, 15.81283, -15.81283, -43, 0, 0, 1	
GOTO/15.81283,-15.81283,-3		GOTO/15.81283,-15.81283,-3	
ENDMES		ENDMES	
		T(tol_LINEAR_DISTANCE_87791) = TOL/DISTWRT,NOMINL,2.5, -0.1, 0.1, DAT(C)	
OUTPUT/FA(PLANE_TOLERANCE_FEATURE_87378), TA(tol_88510)		OUTPUT/FA(PLANE_TOLERANCE_FEATURE_87375), TA(tol_LINEAR_DISTANCE_87791)	
\$\$ -----		\$\$ -----	
\$\$ Measuring plane feature for: PLANE_TOLERANCE_FEATURE_87800		\$\$ Measuring plane feature for: PLANE_TOLERANCE_FEATURE_87797	
\$\$		\$\$	
F(PLANE_TOLERANCE_FEATURE_87800) = FEAT/PLANE, CART, 13.394573, 49.084921, -27.485864, 0, -1, 0		F(PLANE_TOLERANCE_FEATURE_87797) = FEAT/PLANE, CART, 13.394573, 49.084921, -27.485864, 0, -1, 0	
MEAS/PLANE, F(PLANE_TOLERANCE_FEATURE_87800), 7		MEAS/PLANE, F(PLANE_TOLERANCE_FEATURE_87797), 7	
\$\$ Workingstep: Plane probe 0, 0 WS 102		\$\$ Workingstep: Plane probe 0, 0 WS 102	
GOTO/-16.30022,39.084921,3.5		GOTO/-16.30022,39.084921,3.5	
GOTO/-16.30022,39.084921,-36.5		GOTO/-16.30022,39.084921,-36.5	
PTMEAS/CART, -16.30022, 49.084921, -36.5, 0, -1, 0		PTMEAS/CART, -16.30022, 49.084921, -36.5, 0, -1, 0	
GOTO/-16.30022,39.084921,3.5		GOTO/-16.30022,39.084921,3.5	
\$\$ Workingstep: Plane probe 0, 1 WS 103		\$\$ Workingstep: Plane probe 0, 1 WS 103	
GOTO/1.568976,39.084921,3.5		GOTO/1.568976,39.084921,3.5	
GOTO/1.568976,39.084921,-36.5		GOTO/1.568976,39.084921,-36.5	
PTMEAS/CART, 1.568976, 49.084921, -36.5, 0, 1, 0		PTMEAS/CART, 1.568976, 49.084921, -36.5, 0, 1, 0	
GOTO/1.568976,39.084921,3.5		GOTO/1.568976,39.084921,3.5	
\$\$ Workingstep: Plane probe 0, 2 WS 104		\$\$ Workingstep: Plane probe 0, 2 WS 104	
GOTO/19.438173,39.084921,3.5		GOTO/19.438173,39.084921,3.5	
GOTO/19.438173,39.084921,-36.5		GOTO/19.438173,39.084921,-36.5	
PTMEAS/CART, 19.438173, 49.084921, -36.5, 0, -1, 0		PTMEAS/CART, 19.438173, 49.084921, -36.5, 0, -1, 0	
GOTO/19.438173,39.084921,3.5		GOTO/19.438173,39.084921,3.5	
\$\$ Workingstep: Plane probe 1, 0 WS 105		\$\$ Workingstep: Plane probe 1, 0 WS 105	
GOTO/-16.30022,39.084921,9		GOTO/-16.30022,39.084921,9	
GOTO/-16.30022,39.084921,-31		GOTO/-16.30022,39.084921,-31	
PTMEAS/CART, -16.30022, 49.084921, -31, 0, -1, 0		PTMEAS/CART, -16.30022, 49.084921, -31, 0, -1, 0	
GOTO/-16.30022,39.084921,9		GOTO/-16.30022,39.084921,9	
\$\$ Workingstep: Plane probe 1, 1 WS 106		\$\$ Workingstep: Plane probe 1, 1 WS 106	
GOTO/1.568976,39.084921,9		GOTO/1.568976,39.084921,9	
GOTO/1.568976,39.084921,-31		GOTO/1.568976,39.084921,-31	
PTMEAS/CART, 1.568976, 49.084921, -31, 0, -1, 0		PTMEAS/CART, 1.568976, 49.084921, -31, 0, -1, 0	
GOTO/1.568976,39.084921,9		GOTO/1.568976,39.084921,9	
\$\$ Workingstep: Plane probe 1, 2 WS 107		\$\$ Workingstep: Plane probe 1, 2 WS 107	
GOTO/19.438173,39.084921,9		GOTO/19.438173,39.084921,9	
GOTO/19.438173,39.084921,-31		GOTO/19.438173,39.084921,-31	
PTMEAS/CART, 19.438173, 49.084921, -31, 0, -1, 0		PTMEAS/CART, 19.438173, 49.084921, -31, 0, -1, 0	
GOTO/19.438173,39.084921,9		GOTO/19.438173,39.084921,9	
\$\$ Workingstep: Plane probe 2, 2 WS 108		\$\$ Workingstep: Plane probe 2, 2 WS 108	
GOTO/19.438173,39.084921,14.5		GOTO/19.438173,39.084921,14.5	
GOTO/19.438173,39.084921,-25.5		GOTO/19.438173,39.084921,-25.5	
PTMEAS/CART, 19.438173, 49.084921, -25.5, 0, -1, 0		PTMEAS/CART, 19.438173, 49.084921, -25.5, 0, -1, 0	
GOTO/19.438173,39.084921,14.5		GOTO/19.438173,39.084921,14.5	
ENDMES		ENDMES	
T(tol_88511) = TOL/PROFS,-0.5,0.5,DAT(A),DAT(B),DAT(C)		T(tol_88508) = TOL/PROFS,-0.5,0.5,DAT(A),DAT(B),DAT(C)	
OUTPUT/FA(PLANE_TOLERANCE_FEATURE_87800), TA(tol_88511)		OUTPUT/FA(PLANE_TOLERANCE_FEATURE_87797), TA(tol_88508)	
\$\$ -----		\$\$ -----	
\$\$ Measuring plane feature for: PLANE_TOLERANCE_FEATURE_88513		\$\$ Measuring plane feature for: PLANE_TOLERANCE_FEATURE_88510	

Comparison of DMIS codes

Sandvik actual 2007-10-24	diff	StepTools C 2007-10-30	comments on StepTools C 2007-10-30
\$\$		\$\$	
F(PLANE_TOLERANCE_FEATURE_88513) = FEAT/PLANE, CART, -45.169416, -0.039315, -35.915765, 1, 0, 0		F(PLANE_TOLERANCE_FEATURE_88510) = FEAT/PLANE, CART, -45.169416, -0.039315, -35.915765, 1, 0, 0	
MEAS/PLANE, F(PLANE_TOLERANCE_FEATURE_88513), 6		MEAS/PLANE, F(PLANE_TOLERANCE_FEATURE_88510), 6	
\$\$ Workingstep: Plane probe 0, 0 WS 109		\$\$ Workingstep: Plane probe 0, 0 WS 109	
GOTO/-35.169416,23.30665,1.833333		GOTO/-35.169416,23.30665,1.833333	
GOTO/-35.169416,23.30665,-38.166667		GOTO/-35.169416,23.30665,-38.166667	
PTMEAS/CART, -45.169416, 23.30665, -38.166667, 1, 0, 0		PTMEAS/CART, -45.169416, 23.30665, -38.166667, 1, 0, 0	
GOTO/-35.169416,23.30665,1.833333		GOTO/-35.169416,23.30665,1.833333	
\$\$ Workingstep: Plane probe 0, 1 WS 110		\$\$ Workingstep: Plane probe 0, 1 WS 110	
GOTO/-35.169416,8.528379,1.833333		GOTO/-35.169416,8.528379,1.833333	
GOTO/-35.169416,8.528379,-38.166667		GOTO/-35.169416,8.528379,-38.166667	
PTMEAS/CART, -45.169416, 8.528379, -38.166667, 1, 0, 0		PTMEAS/CART, -45.169416, 8.528379, -38.166667, 1, 0, 0	
GOTO/-35.169416,8.528379,1.833333		GOTO/-35.169416,8.528379,1.833333	
\$\$ Workingstep: Plane probe 0, 2 WS 111		\$\$ Workingstep: Plane probe 0, 2 WS 111	
GOTO/-35.169416,-6.249892,1.833333		GOTO/-35.169416,-6.249892,1.833333	
GOTO/-35.169416,-6.249892,-38.166667		GOTO/-35.169416,-6.249892,-38.166667	
PTMEAS/CART, -45.169416, -6.249892, -38.166667, 1, 0, 0		PTMEAS/CART, -45.169416, -6.249892, -38.166667, 1, 0, 0	
GOTO/-35.169416,-6.249892,1.833333		GOTO/-35.169416,-6.249892,1.833333	
\$\$ Workingstep: Plane probe 1, 0 WS 112		\$\$ Workingstep: Plane probe 1, 0 WS 112	
GOTO/-35.169416,23.30665,5.666667		GOTO/-35.169416,23.30665,5.666667	
GOTO/-35.169416,23.30665,-34.333333		GOTO/-35.169416,23.30665,-34.333333	
PTMEAS/CART, -45.169416, 23.30665, -34.333333, 1, 0, 0		PTMEAS/CART, -45.169416, 23.30665, -34.333333, 1, 0, 0	
GOTO/-35.169416,23.30665,5.666667		GOTO/-35.169416,23.30665,5.666667	
\$\$ Workingstep: Plane probe 1, 1 WS 113		\$\$ Workingstep: Plane probe 1, 1 WS 113	
GOTO/-35.169416,8.528379,5.666667		GOTO/-35.169416,8.528379,5.666667	
GOTO/-35.169416,8.528379,-34.333333		GOTO/-35.169416,8.528379,-34.333333	
PTMEAS/CART, -45.169416, 8.528379, -34.333333, 1, 0, 0		PTMEAS/CART, -45.169416, 8.528379, -34.333333, 1, 0, 0	
GOTO/-35.169416,8.528379,5.666667		GOTO/-35.169416,8.528379,5.666667	
\$\$ Workingstep: Plane probe 1, 2 WS 114		\$\$ Workingstep: Plane probe 1, 2 WS 114	
GOTO/-35.169416,-6.249892,5.666667		GOTO/-35.169416,-6.249892,5.666667	
GOTO/-35.169416,-6.249892,-34.333333		GOTO/-35.169416,-6.249892,-34.333333	
PTMEAS/CART, -45.169416, -6.249892, -34.333333, 1, 0, 0		PTMEAS/CART, -45.169416, -6.249892, -34.333333, 1, 0, 0	
GOTO/-35.169416,-6.249892,5.666667		GOTO/-35.169416,-6.249892,5.666667	
ENDMES		ENDMES	
T(tol__89131) = TOL/PROFS,-0.5,0.5,DAT(A),DAT(B),DAT(C)		T(tol__89128) = TOL/PROFS,-0.5,0.5,DAT(A),DAT(B),DAT(C)	
OUTPUT/FA(PLANE_TOLERANCE_FEATURE_88513), TA(tol__89131)		OUTPUT/FA(PLANE_TOLERANCE_FEATURE_88510), TA(tol__89128)	
ENDFIL		ENDFIL	