

Appendix G

Test Case - No Preload - Material A

This appendix contains:

Item	Description	Page
G-02	Table: Summary of Preload Achieved	G-02
G-03	Table: Volume History Output	G-03
G-05	Table: Node 15873 Out of Plane Displacement over Time	G-04
G-06	Table: Bolt Axial Stress History	G-05
G-08	Table: Bolt Plastic Strain History	G-08
G-11	Figure: Bolt Plastic Strain History Plots	G-11
G-17	Figure: Model Displacement and Sealing Skin Mises Contour Plots	G-17
G-18	Figure: Clamp Plate and Divider Plate Plastic Strain Contour Plots	G-18
G-19	Figure: Clamp Dogs and Seat Bar Plastic Strain Contour Plots	G-19
G-20	Figure:: Bolt Plastic Strain Contour Plots	G-20

Summary of Preload Achieved

	<u>Bolt</u>	<u>Axial Stress</u>	<u>Bolt</u>	<u>Axial Stress</u>
CLAMP Bolts	01 (Bolt 14)	12.67 ksi	13 (Bolt 48)	0 ksi
	02 (Bolt 15)	12.82 ksi	14 (Bolt 49)	0 ksi
	03 (Bolt 16)	13.23 ksi	15 (Bolt 50)	0 ksi
	04 (Bolt 17)	13.46 ksi	16 (Bolt 51)	0 ksi
	05 (Bolt 34)	0 ksi	17 (Bolt 55)	0 ksi
	06 (Bolt 35)	.03 ksi	18 (Bolt 56)	.02 ksi
	07 (Bolt 36)	0 ksi		
	08 (Bolt 37)	0 ksi		
	09 (Bolt 41)	0 ksi		
	10 (Bolt 42)	.09 ksi		
	11 (Bolt 43)	.07 ksi		
	12 (Bolt 44)	.01 ksi		

Item G-02 : Table: Summary of Preload Achieved

_ \$6\$DRB5: [BASKIN.TEST.CUT.NOPRELOAD_A]VOL_HIS_NOPRELOAD_A.HIS;1

Page 1

*** Program VOL_HIS ***

Read displacements from run EXT NOPRELOAD_A_C

Output file ID = VOL_HIS_NOPRELOAD_A

Time	Pressure	Time	Pressure	Time	Pressure
0.0000	0.00000E+00	0.0200	0.00000E+00	0.0800	300.00
1.0000	300.00	2.0000	300.00	10000.0000	300.00

Read element and area from MODEL.AREA

Read element/surface definition from MODEL.FACE

Max. displacement at node 85418

Number of elts to be processed (.AREA file): 519

Total area (A total) : 239.5448

Number of elts in the .FACE file : 519

Volume calculation based on displacement U3

V = Sum_of_(Ui*Ai), where Ui=Ave. displ of elt. Ai=elt. area

Vc=U_85418*A_total

Time	Pressure	V	Vc	V/Vc	U_85418
1.0000E-02	0.0000E+00	9.2693E-02	0.0000E+00	0.0000E+00	0.0000E+00
2.0000E-02	0.0000E+00	8.3958E-02	0.0000E+00	0.0000E+00	0.0000E+00
2.4000E-02	20.00	3.650	6.455	0.5654	2.6948E-02
2.8000E-02	40.00	10.28	26.30	0.3908	0.1098
3.2000E-02	60.00	13.42	39.52	0.3396	0.1650
3.6000E-02	80.00	19.22	37.39	0.5139	0.1561
4.0000E-02	100.0	23.67	41.63	0.5685	0.1738
4.2000E-02	110.0	26.52	49.97	0.5307	0.2086
4.4000E-02	120.0	29.53	58.45	0.5053	0.2440
4.6000E-02	130.0	32.43	65.35	0.4963	0.2728
4.8000E-02	140.0	35.21	71.55	0.4921	0.2987
5.0000E-02	150.0	38.26	75.72	0.5052	0.3161
5.2000E-02	160.0	42.39	81.61	0.5193	0.3407
5.4000E-02	170.0	48.20	86.95	0.5543	0.3630
5.6000E-02	180.0	55.02	96.08	0.5727	0.4011
5.8000E-02	190.0	62.96	114.0	0.5523	0.4759
6.0000E-02	200.0	72.49	135.0	0.5368	0.5637
6.2000E-02	210.0	84.13	158.9	0.5293	0.6635
6.4000E-02	220.0	98.24	183.4	0.5357	0.7655
6.6000E-02	230.0	114.6	214.7	0.5337	0.8962
6.8000E-02	240.0	132.8	255.8	0.5192	1.068
*→ 7.0000E-02	250.0	153.6	290.3	0.5292	1.212
7.2000E-02	260.0	182.8	363.4	0.5030	1.517
7.4000E-02	270.0	233.4	430.2	0.5426	1.796
7.6000E-02	280.0	307.7	562.7	0.5468	2.349
7.8000E-02	290.0	405.1	739.0	0.5481	3.085
8.0000E-02	300.0	520.5	944.3	0.5512	3.942

* FIRST BOLT FAILURE

G-4

**
 **
 ** XY REPORT :
 ** =====
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		U3_15873
		Variable U3
TIME		
1.0000E-02		3.4199E-04
2.0000E-02		2.6848E-04
2.4000E-02		2.5125E-02
2.8000E-02		7.2848E-02
3.2000E-02		9.4483E-02
3.6000E-02		0.1358
4.0000E-02		0.1664
4.2000E-02		0.1868
4.4000E-02		0.2077
4.6000E-02		0.2279
4.8000E-02		0.2469
5.0000E-02		0.2693
5.2000E-02		0.2997
5.4000E-02		0.3414
5.6000E-02		0.3920
5.8000E-02		0.4516
6.0000E-02		0.5233
6.2000E-02		0.6124
6.4000E-02		0.7216
6.6000E-02		0.8478
6.8000E-02		0.9888
7.0000E-02		1.150
7.2000E-02		1.390
7.4000E-02		1.769
7.6000E-02		2.351
7.8000E-02		3.087
8.0000E-02		3.928

**

Item G-05 : Table: Node 15873 Out of Plane Displacement over Time

STRESS::BASKIN

JOB 814

BS.RPT_OUT;2

File: _\$6\$DRB5:[BASKIN.TEST.CUT.NOPRELOAD_A]BS.RPT_OUT;2
Last Modified: 11-NOV-1997 08:37
Owner UIC: [G42,BASKIN]

Length: 60 blocks
Longest record: 59 bytes
Priority: 100
Submit queue: SYS\$PRINT
Submitted: 11-NOV-1997 08:40
Printer queue: SYS\$PRINT
Printer device: POSTMO::

G-6

OUTPUT BOLT COUNT : 01			
Time : 0.010	S33 MAX ksi:	15.26	Avg. ksi: 12.74
Time : 0.020	S33 MAX ksi:	15.09	Avg. ksi: 12.77
Time : 0.024	S33 MAX ksi:	28.27	Avg. ksi: 15.60
Time : 0.028	S33 MAX ksi:	43.88	Avg. ksi: 22.36
Time : 0.032	S33 MAX ksi:	44.45	Avg. ksi: 26.31
Time : 0.036	S33 MAX ksi:	57.10	Avg. ksi: 32.92
Time : 0.040	S33 MAX ksi:	62.98	Avg. ksi: 38.05
Time : 0.042	S33 MAX ksi:	71.04	Avg. ksi: 41.71
Time : 0.044	S33 MAX ksi:	80.60	Avg. ksi: 45.35
Time : 0.046	S33 MAX ksi:	84.70	Avg. ksi: 48.87
Time : 0.048	S33 MAX ksi:	85.31	Avg. ksi: 51.45
Time : 0.050	S33 MAX ksi:	87.42	Avg. ksi: 54.81
Time : 0.052	S33 MAX ksi:	88.76	Avg. ksi: 57.88
Time : 0.054	S33 MAX ksi:	90.18	Avg. ksi: 61.38
Time : 0.056	S33 MAX ksi:	90.67	Avg. ksi: 64.78
Time : 0.058	S33 MAX ksi:	88.49	Avg. ksi: 67.68
Time : 0.060	S33 MAX ksi:	90.49	Avg. ksi: 70.50
Time : 0.062	S33 MAX ksi:	91.58	Avg. ksi: 73.39
Time : 0.064	S33 MAX ksi:	93.07	Avg. ksi: 75.26
Time : 0.066	S33 MAX ksi:	94.58	Avg. ksi: 77.01
Time : 0.068	S33 MAX ksi:	97.25	Avg. ksi: 78.61
Time : 0.070	S33 MAX ksi:	100.17	Avg. ksi: 80.09
Time : 0.072	S33 MAX ksi:	102.36	Avg. ksi: 83.30
Time : 0.074	S33 MAX ksi:	108.20	Avg. ksi: 83.62
Time : 0.076	S33 MAX ksi:	116.19	Avg. ksi: 68.03
Time : 0.078	S33 MAX ksi:	130.01	Avg. ksi: 39.87
Time : 0.080	S33 MAX ksi:	120.32	Avg. ksi:
OUTPUT BOLT COUNT : 02			
Time : 0.010	S33 MAX ksi:	19.79	Avg. ksi: 12.81
Time : 0.020	S33 MAX ksi:	19.82	Avg. ksi: 12.82
Time : 0.024	S33 MAX ksi:	26.56	Avg. ksi: 14.90
Time : 0.028	S33 MAX ksi:	37.26	Avg. ksi: 23.46
Time : 0.032	S33 MAX ksi:	42.75	Avg. ksi: 26.71
Time : 0.036	S33 MAX ksi:	58.25	Avg. ksi: 33.96
Time : 0.040	S33 MAX ksi:	68.14	Avg. ksi: 39.35
Time : 0.042	S33 MAX ksi:	72.86	Avg. ksi: 43.12
Time : 0.044	S33 MAX ksi:	81.91	Avg. ksi: 46.38
Time : 0.046	S33 MAX ksi:	84.94	Avg. ksi: 50.72
Time : 0.048	S33 MAX ksi:	84.81	Avg. ksi: 52.54
Time : 0.050	S33 MAX ksi:	87.05	Avg. ksi: 55.49
Time : 0.052	S33 MAX ksi:	86.18	Avg. ksi: 57.84
Time : 0.054	S33 MAX ksi:	87.34	Avg. ksi: 62.25
Time : 0.056	S33 MAX ksi:	89.52	Avg. ksi: 65.67
Time : 0.058	S33 MAX ksi:	91.60	Avg. ksi: 67.22
Time : 0.060	S33 MAX ksi:	89.86	Avg. ksi: 70.81
Time : 0.062	S33 MAX ksi:	91.62	Avg. ksi: 73.28
Time : 0.064	S33 MAX ksi:	91.78	Avg. ksi: 75.15
Time : 0.066	S33 MAX ksi:	92.61	Avg. ksi: 77.09
Time : 0.068	S33 MAX ksi:	93.71	Avg. ksi: 78.56
Time : 0.070	S33 MAX ksi:	98.95	Avg. ksi: 80.26
Time : 0.072	S33 MAX ksi:	95.60	Avg. ksi: 83.72
Time : 0.074	S33 MAX ksi:	105.53	Avg. ksi: 85.75
Time : 0.076	S33 MAX ksi:	107.68	Avg. ksi: 69.95
Time : 0.078	S33 MAX ksi:	96.35	Avg. ksi: 44.18
Time : 0.080	S33 MAX ksi:	106.32	Avg. ksi:
OUTPUT BOLT COUNT : 03			
Time : 0.010	S33 MAX ksi:	19.42	Avg. ksi: 13.24
Time : 0.020	S33 MAX ksi:	19.41	Avg. ksi: 13.23
Time : 0.024	S33 MAX ksi:	27.52	Avg. ksi: 15.73
Time : 0.028	S33 MAX ksi:	37.89	Avg. ksi: 23.85
Time : 0.032	S33 MAX ksi:	47.52	Avg. ksi: 27.87
Time : 0.036	S33 MAX ksi:	63.39	Avg. ksi: 35.35
Time : 0.040	S33 MAX ksi:	69.06	Avg. ksi: 40.97

Time : 0.042	S33 MAX ksi:	80.46	Avg. ksi: 45.48
Time : 0.044	S33 MAX ksi:	85.80	Avg. ksi: 49.47
Time : 0.046	S33 MAX ksi:	86.38	Avg. ksi: 51.95
Time : 0.048	S33 MAX ksi:	88.08	Avg. ksi: 55.10
Time : 0.050	S33 MAX ksi:	89.46	Avg. ksi: 57.02
Time : 0.052	S33 MAX ksi:	89.15	Avg. ksi: 59.88
Time : 0.054	S33 MAX ksi:	90.69	Avg. ksi: 64.06
Time : 0.056	S33 MAX ksi:	92.42	Avg. ksi: 67.45
Time : 0.058	S33 MAX ksi:	89.94	Avg. ksi: 70.25
Time : 0.060	S33 MAX ksi:	92.47	Avg. ksi: 72.91
Time : 0.062	S33 MAX ksi:	93.11	Avg. ksi: 74.79
Time : 0.064	S33 MAX ksi:	94.50	Avg. ksi: 76.11
Time : 0.066	S33 MAX ksi:	97.12	Avg. ksi: 77.77
Time : 0.068	S33 MAX ksi:	100.52	Avg. ksi: 79.04
Time : 0.070	S33 MAX ksi:	101.62	Avg. ksi: 81.18
Time : 0.072	S33 MAX ksi:	95.26	Avg. ksi: 77.86
Time : 0.074	S33 MAX ksi:	104.77	Avg. ksi: 84.15
Time : 0.076	S33 MAX ksi:	114.66	Avg. ksi: 85.67
Time : 0.078	S33 MAX ksi:	120.96	Avg. ksi: 80.06
Time : 0.080	S33 MAX ksi:	116.40	Avg. ksi: 52.26
OUTPUT BOLT COUNT : 04			
Time : 0.010	S33 MAX ksi:	18.64	Avg. ksi: 13.45
Time : 0.020	S33 MAX ksi:	18.56	Avg. ksi: 13.46
Time : 0.024	S33 MAX ksi:	21.90	Avg. ksi: 15.45
Time : 0.028	S33 MAX ksi:	28.56	Avg. ksi: 21.97
Time : 0.032	S33 MAX ksi:	33.88	Avg. ksi: 24.58
Time : 0.036	S33 MAX ksi:	44.79	Avg. ksi: 30.41
Time : 0.040	S33 MAX ksi:	50.71	Avg. ksi: 34.75
Time : 0.042	S33 MAX ksi:	51.74	Avg. ksi: 37.51
Time : 0.044	S33 MAX ksi:	50.64	Avg. ksi: 40.83
Time : 0.046	S33 MAX ksi:	56.23	Avg. ksi: 42.39
Time : 0.048	S33 MAX ksi:	65.61	Avg. ksi: 44.61
Time : 0.050	S33 MAX ksi:	59.59	Avg. ksi: 48.35
Time : 0.052	S33 MAX ksi:	67.58	Avg. ksi: 51.52
Time : 0.054	S33 MAX ksi:	80.65	Avg. ksi: 55.34
Time : 0.056	S33 MAX ksi:	73.83	Avg. ksi: 59.69
Time : 0.058	S33 MAX ksi:	82.81	Avg. ksi: 67.69
Time : 0.060	S33 MAX ksi:	84.18	Avg. ksi: 71.07
Time : 0.062	S33 MAX ksi:	87.18	Avg. ksi: 73.00
Time : 0.064	S33 MAX ksi:	88.34	Avg. ksi: 74.15
Time : 0.066	S33 MAX ksi:	90.70	Avg. ksi: 75.81
Time : 0.068	S33 MAX ksi:	90.81	Avg. ksi: 76.97
Time : 0.070	S33 MAX ksi:	92.56	Avg. ksi: 78.90
Time : 0.072	S33 MAX ksi:	82.35	Avg. ksi: 78.88
Time : 0.074	S33 MAX ksi:	96.96	Avg. ksi: 79.29
Time : 0.076	S33 MAX ksi:	92.34	Avg. ksi: 69.17
Time : 0.078	S33 MAX ksi:	99.06	Avg. ksi: 17.51
Time : 0.080	S33 MAX ksi:	40.65	Avg. ksi:
OUTPUT BOLT COUNT : 05			
Time : 0.010	S33 MAX ksi:	0.69	Avg. ksi: 0.00
Time : 0.020	S33 MAX ksi:	0.98	Avg. ksi: 0.00
Time : 0.024	S33 MAX ksi:	12.64	Avg. ksi: 0.00
Time : 0.028	S33 MAX ksi:	30.39	Avg. ksi: 0.00
Time : 0.032	S33 MAX ksi:	39.97	Avg. ksi: 0.00
Time : 0.036	S33 MAX ksi:	57.66	Avg. ksi: 0.00
Time : 0.040	S33 MAX ksi:	72.01	Avg. ksi: 0.00
Time : 0.042	S33 MAX ksi:	81.47	Avg. ksi: 0.00
Time : 0.044	S33 MAX ksi:	88.61	Avg. ksi: 0.00
Time : 0.046	S33 MAX ksi:	89.98	Avg. ksi: 0.17
Time : 0.048	S33 MAX ksi:	92.53	Avg. ksi: 0.60
Time : 0.050	S33 MAX ksi:	94.09	Avg. ksi: 0.81
Time : 0.052	S33 MAX ksi:	97.13	Avg. ksi: 1.77
Time : 0.054	S33 MAX ksi:	99.02	Avg. ksi: 2.60
Time : 0.056	S33 MAX ksi:	103.05	Avg. ksi: 5.14

Time : 0.058	S33 MAX ksi:	108.56	Avg. ksi: 8.57
Time : 0.060	S33 MAX ksi:	114.43	Avg. ksi: 13.39
Time : 0.062	S33 MAX ksi:	118.65	Avg. ksi: 15.87
Time : 0.064	S33 MAX ksi:	125.78	Avg. ksi: 19.75
Time : 0.066	S33 MAX ksi:	132.27	Avg. ksi: 24.46
Time : 0.068	S33 MAX ksi:	138.22	Avg. ksi: 29.91
Time : 0.070	S33 MAX ksi:	143.56	Avg. ksi: 32.62
Time : 0.072	S33 MAX ksi:	90.72	Avg. ksi: 31.83
Time : 0.074	S33 MAX ksi:	97.86	Avg. ksi: 34.99
Time : 0.076	S33 MAX ksi:	17.26	Avg. ksi: 1.05
Time : 0.078	S33 MAX ksi:	22.19	Avg. ksi: 1.19
Time : 0.080	S33 MAX ksi:	23.73	Avg. ksi: 1.27
OUTPUT BOLT COUNT : 06			
Time : 0.010	S33 MAX ksi:	0.97	Avg. ksi: 0.03
Time : 0.020	S33 MAX ksi:	1.22	Avg. ksi: 0.03
Time : 0.024	S33 MAX ksi:	19.94	Avg. ksi: 0.00
Time : 0.028	S33 MAX ksi:	48.06	Avg. ksi: 0.00
Time : 0.032	S33 MAX ksi:	62.66	Avg. ksi: 0.00
Time : 0.036	S33 MAX ksi:	87.07	Avg. ksi: 0.00
Time : 0.040	S33 MAX ksi:	92.24	Avg. ksi: 0.00
Time : 0.042	S33 MAX ksi:	93.04	Avg. ksi: 0.00
Time : 0.044	S33 MAX ksi:	93.48	Avg. ksi: 0.00
Time : 0.046	S33 MAX ksi:	95.05	Avg. ksi: 0.00
Time : 0.048	S33 MAX ksi:	95.54	Avg. ksi: 0.00
Time : 0.050	S33 MAX ksi:	97.03	Avg. ksi: 0.14
Time : 0.052	S33 MAX ksi:	99.98	Avg. ksi: 1.61
Time : 0.054	S33 MAX ksi:	102.88	Avg. ksi: 1.73
Time : 0.056	S33 MAX ksi:	106.42	Avg. ksi: 3.03
Time : 0.058	S33 MAX ksi:	112.15	Avg. ksi: 6.00
Time : 0.060	S33 MAX ksi:	116.94	Avg. ksi: 8.44
Time : 0.062	S33 MAX ksi:	121.52	Avg. ksi: 11.14
Time : 0.064	S33 MAX ksi:	127.58	Avg. ksi: 15.30
Time : 0.066	S33 MAX ksi:	122.55	Avg. ksi: 19.71
Time : 0.068	S33 MAX ksi:	108.87	Avg. ksi: 25.78
Time : 0.070	S33 MAX ksi:	97.11	Avg. ksi: 25.78
Time : 0.072	S33 MAX ksi:	12.83	Avg. ksi: 4.32
Time : 0.074	S33 MAX ksi:	27.00	Avg. ksi: 2.06
Time : 0.076	S33 MAX ksi:	35.61	Avg. ksi: 5.48
Time : 0.078	S33 MAX ksi:	39.25	Avg. ksi: 4.97
Time : 0.080	S33 MAX ksi:	38.89	Avg. ksi: 5.36
OUTPUT BOLT COUNT : 07			
Time : 0.010	S33 MAX ksi:	2.00	Avg. ksi: 0.02
Time : 0.020	S33 MAX ksi:	2.22	Avg. ksi: 0.00
Time : 0.024	S33 MAX ksi:	21.80	Avg. ksi: 0.00
Time : 0.028	S33 MAX ksi:	54.93	Avg. ksi: 0.00
Time : 0.032	S33 MAX ksi:	71.25	Avg. ksi: 0.00
Time : 0.036	S33 MAX ksi:	85.42	Avg. ksi: 0.00
Time : 0.040	S33 MAX ksi:	88.97	Avg. ksi: 0.00
Time : 0.042	S33 MAX ksi:	89.98	Avg. ksi: 0.00
Time : 0.044	S33 MAX ksi:	90.63	Avg. ksi: 0.00
Time : 0.046	S33 MAX ksi:	93.15	Avg. ksi: 0.00
Time : 0.048	S33 MAX ksi:	93.61	Avg. ksi: 0.00
Time : 0.050	S33 MAX ksi:	96.42	Avg. ksi: 0.00
Time : 0.052	S33 MAX ksi:	99.68	Avg. ksi: 0.00
Time : 0.054	S33 MAX ksi:	103.42	Avg. ksi: 0.07
Time : 0.056	S33 MAX ksi:	107.52	Avg. ksi: 1.62
Time : 0.058	S33 MAX ksi:	112.83	Avg. ksi: 4.60
Time : 0.060	S33 MAX ksi:	118.07	Avg. ksi: 6.80
Time : 0.062	S33 MAX ksi:	119.95	Avg. ksi: 9.34
Time : 0.064	S33 MAX ksi:	111.31	Avg. ksi: 13.05
Time : 0.066	S33 MAX ksi:	104.14	Avg. ksi: 15.08
Time : 0.068	S33 MAX ksi:	101.86	Avg. ksi: 18.40
Time : 0.070	S33 MAX ksi:	74.99	Avg. ksi: 14.52
Time : 0.072	S33 MAX ksi:	19.96	Avg. ksi: 4.23

Time : 0.074	S33 MAX ksi:	32.92	Avg. ksi: 5.40
Time : 0.076	S33 MAX ksi:	41.72	Avg. ksi: 7.07
Time : 0.078	S33 MAX ksi:	43.35	Avg. ksi: 7.71
Time : 0.080	S33 MAX ksi:	45.71	Avg. ksi: 8.48
OUTPUT BOLT COUNT : 08			
Time : 0.010	S33 MAX ksi:	0.41	Avg. ksi: 0.00
Time : 0.020	S33 MAX ksi:	0.40	Avg. ksi: 0.00
Time : 0.024	S33 MAX ksi:	1.89	Avg. ksi: 0.00
Time : 0.028	S33 MAX ksi:	5.99	Avg. ksi: 0.00
Time : 0.032	S33 MAX ksi:	3.44	Avg. ksi: 0.00
Time : 0.036	S33 MAX ksi:	6.44	Avg. ksi: 0.00
Time : 0.040	S33 MAX ksi:	12.41	Avg. ksi: 0.00
Time : 0.042	S33 MAX ksi:	12.30	Avg. ksi: 0.00
Time : 0.044	S33 MAX ksi:	14.55	Avg. ksi: 0.00
Time : 0.046	S33 MAX ksi:	16.98	Avg. ksi: 0.00
Time : 0.048	S33 MAX ksi:	21.26	Avg. ksi: 0.00
Time : 0.050	S33 MAX ksi:	23.19	Avg. ksi: 0.00
Time : 0.052	S33 MAX ksi:	27.79	Avg. ksi: 0.00
Time : 0.054	S33 MAX ksi:	33.39	Avg. ksi: 0.00
Time : 0.056	S33 MAX ksi:	37.69	Avg. ksi: 0.00
Time : 0.058	S33 MAX ksi:	42.49	Avg. ksi: 0.00
Time : 0.060	S33 MAX ksi:	48.71	Avg. ksi: 0.00
Time : 0.062	S33 MAX ksi:	54.28	Avg. ksi: 0.00
Time : 0.064	S33 MAX ksi:	61.09	Avg. ksi: 0.00
Time : 0.066	S33 MAX ksi:	63.42	Avg. ksi: 0.00
Time : 0.068	S33 MAX ksi:	65.15	Avg. ksi: 0.00
Time : 0.070	S33 MAX ksi:	68.27	Avg. ksi: 0.41
Time : 0.072	S33 MAX ksi:	82.36	Avg. ksi: 1.83
Time : 0.074	S33 MAX ksi:	86.50	Avg. ksi: 9.19
Time : 0.076	S33 MAX ksi:	96.88	Avg. ksi: 4.65
Time : 0.078	S33 MAX ksi:	119.92	Avg. ksi: 12.02
Time : 0.080	S33 MAX ksi:	91.25	Avg. ksi: 1.99
OUTPUT BOLT COUNT : 09			
Time : 0.010	S33 MAX ksi:	0.89	Avg. ksi: 0.00
Time : 0.020	S33 MAX ksi:	0.89	Avg. ksi: 0.00
Time : 0.024	S33 MAX ksi:	7.29	Avg. ksi: 0.00
Time : 0.028	S33 MAX ksi:	21.92	Avg. ksi: 0.00
Time : 0.032	S33 MAX ksi:	22.84	Avg. ksi: 0

G-7

Time:	0.028	S33 MAX ksi:	35.04	Avg. ksi:	0.13
Time:	0.032	S33 MAX ksi:	46.38	Avg. ksi:	0.35
Time:	0.036	S33 MAX ksi:	70.43	Avg. ksi:	1.20
Time:	0.040	S33 MAX ksi:	88.00	Avg. ksi:	0.44
Time:	0.042	S33 MAX ksi:	90.71	Avg. ksi:	0.00
Time:	0.044	S33 MAX ksi:	93.40	Avg. ksi:	0.01
Time:	0.046	S33 MAX ksi:	94.86	Avg. ksi:	0.00
Time:	0.048	S33 MAX ksi:	95.31	Avg. ksi:	0.00
Time:	0.050	S33 MAX ksi:	96.81	Avg. ksi:	0.00
Time:	0.052	S33 MAX ksi:	98.60	Avg. ksi:	0.00
Time:	0.054	S33 MAX ksi:	98.86	Avg. ksi:	0.00
Time:	0.056	S33 MAX ksi:	100.37	Avg. ksi:	0.00
Time:	0.058	S33 MAX ksi:	103.37	Avg. ksi:	0.00
Time:	0.060	S33 MAX ksi:	104.81	Avg. ksi:	0.00
Time:	0.062	S33 MAX ksi:	107.93	Avg. ksi:	0.00
Time:	0.064	S33 MAX ksi:	113.95	Avg. ksi:	2.58
Time:	0.066	S33 MAX ksi:	113.82	Avg. ksi:	4.85
Time:	0.068	S33 MAX ksi:	108.21	Avg. ksi:	7.66
Time:	0.070	S33 MAX ksi:	99.99	Avg. ksi:	11.15
Time:	0.072	S33 MAX ksi:	101.39	Avg. ksi:	15.59
Time:	0.074	S33 MAX ksi:	36.70	Avg. ksi:	5.33
Time:	0.076	S33 MAX ksi:	47.44	Avg. ksi:	9.29
Time:	0.078	S33 MAX ksi:	47.35	Avg. ksi:	11.00
Time:	0.080	S33 MAX ksi:	43.53	Avg. ksi:	10.19
OUTPUT BOLT COUNT : 11					
Time:	0.010	S33 MAX ksi:	1.39	Avg. ksi:	0.08
Time:	0.020	S33 MAX ksi:	1.38	Avg. ksi:	0.07
Time:	0.024	S33 MAX ksi:	15.77	Avg. ksi:	0.00
Time:	0.028	S33 MAX ksi:	45.05	Avg. ksi:	0.00
Time:	0.032	S33 MAX ksi:	88.13	Avg. ksi:	0.00
Time:	0.036	S33 MAX ksi:	83.10	Avg. ksi:	0.00
Time:	0.040	S33 MAX ksi:	89.50	Avg. ksi:	0.00
Time:	0.042	S33 MAX ksi:	90.10	Avg. ksi:	0.00
Time:	0.044	S33 MAX ksi:	89.34	Avg. ksi:	0.00
Time:	0.046	S33 MAX ksi:	87.67	Avg. ksi:	0.00
Time:	0.048	S33 MAX ksi:	88.40	Avg. ksi:	0.00
Time:	0.050	S33 MAX ksi:	88.64	Avg. ksi:	0.00
Time:	0.052	S33 MAX ksi:	91.80	Avg. ksi:	0.00
Time:	0.054	S33 MAX ksi:	93.76	Avg. ksi:	0.00
Time:	0.056	S33 MAX ksi:	98.04	Avg. ksi:	0.00
Time:	0.058	S33 MAX ksi:	101.90	Avg. ksi:	0.00
Time:	0.060	S33 MAX ksi:	106.39	Avg. ksi:	0.00
Time:	0.062	S33 MAX ksi:	110.51	Avg. ksi:	0.00
Time:	0.064	S33 MAX ksi:	111.59	Avg. ksi:	0.00
Time:	0.066	S33 MAX ksi:	110.96	Avg. ksi:	0.00
Time:	0.068	S33 MAX ksi:	107.47	Avg. ksi:	0.00
Time:	0.070	S33 MAX ksi:	102.45	Avg. ksi:	0.00
Time:	0.072	S33 MAX ksi:	53.39	Avg. ksi:	0.00
Time:	0.074	S33 MAX ksi:	49.91	Avg. ksi:	7.87
Time:	0.076	S33 MAX ksi:	53.79	Avg. ksi:	12.11
Time:	0.078	S33 MAX ksi:	53.83	Avg. ksi:	14.00
Time:	0.080	S33 MAX ksi:	50.58	Avg. ksi:	13.60
OUTPUT BOLT COUNT : 12					
Time:	0.010	S33 MAX ksi:	0.16	Avg. ksi:	0.03
Time:	0.020	S33 MAX ksi:	0.15	Avg. ksi:	0.01
Time:	0.024	S33 MAX ksi:	3.17	Avg. ksi:	0.00
Time:	0.028	S33 MAX ksi:	7.86	Avg. ksi:	0.00
Time:	0.032	S33 MAX ksi:	8.34	Avg. ksi:	0.00
Time:	0.036	S33 MAX ksi:	15.22	Avg. ksi:	0.00
Time:	0.040	S33 MAX ksi:	17.75	Avg. ksi:	0.00
Time:	0.042	S33 MAX ksi:	23.14	Avg. ksi:	0.00
Time:	0.044	S33 MAX ksi:	25.24	Avg. ksi:	0.00
Time:	0.046	S33 MAX ksi:	28.97	Avg. ksi:	0.00
Time:	0.048	S33 MAX ksi:	30.04	Avg. ksi:	0.00

Time:	0.050	S33 MAX ksi:	34.29	Avg. ksi:	0.00
Time:	0.052	S33 MAX ksi:	41.28	Avg. ksi:	0.00
Time:	0.054	S33 MAX ksi:	48.73	Avg. ksi:	0.00
Time:	0.056	S33 MAX ksi:	57.14	Avg. ksi:	0.00
Time:	0.058	S33 MAX ksi:	66.90	Avg. ksi:	0.33
Time:	0.060	S33 MAX ksi:	79.59	Avg. ksi:	2.71
Time:	0.062	S33 MAX ksi:	86.98	Avg. ksi:	6.24
Time:	0.064	S33 MAX ksi:	92.49	Avg. ksi:	11.16
Time:	0.066	S33 MAX ksi:	95.18	Avg. ksi:	13.16
Time:	0.068	S33 MAX ksi:	101.90	Avg. ksi:	15.71
Time:	0.070	S33 MAX ksi:	97.10	Avg. ksi:	7.09
Time:	0.072	S33 MAX ksi:	91.80	Avg. ksi:	0.34
Time:	0.074	S33 MAX ksi:	108.35	Avg. ksi:	1.38
Time:	0.076	S33 MAX ksi:	124.78	Avg. ksi:	14.18
Time:	0.078	S33 MAX ksi:	127.51	Avg. ksi:	18.29
Time:	0.080	S33 MAX ksi:	137.26	Avg. ksi:	30.43
OUTPUT BOLT COUNT : 13					
Time:	0.010	S33 MAX ksi:	0.35	Avg. ksi:	0.00
Time:	0.020	S33 MAX ksi:	0.31	Avg. ksi:	0.00
Time:	0.024	S33 MAX ksi:	9.86	Avg. ksi:	0.00
Time:	0.028	S33 MAX ksi:	25.60	Avg. ksi:	0.00
Time:	0.032	S33 MAX ksi:	34.07	Avg. ksi:	0.00
Time:	0.036	S33 MAX ksi:	50.59	Avg. ksi:	0.00
Time:	0.040	S33 MAX ksi:	63.68	Avg. ksi:	0.00
Time:	0.042	S33 MAX ksi:	72.22	Avg. ksi:	0.00
Time:	0.044	S33 MAX ksi:	80.91	Avg. ksi:	0.00
Time:	0.046	S33 MAX ksi:	88.09	Avg. ksi:	0.00
Time:	0.048	S33 MAX ksi:	90.45	Avg. ksi:	0.00
Time:	0.050	S33 MAX ksi:	92.93	Avg. ksi:	0.00
Time:	0.052	S33 MAX ksi:	95.00	Avg. ksi:	0.00
Time:	0.054	S33 MAX ksi:	99.22	Avg. ksi:	0.00
Time:	0.056	S33 MAX ksi:	103.40	Avg. ksi:	0.00
Time:	0.058	S33 MAX ksi:	108.81	Avg. ksi:	0.00
Time:	0.060	S33 MAX ksi:	112.99	Avg. ksi:	2.49
Time:	0.062	S33 MAX ksi:	117.30	Avg. ksi:	5.29
Time:	0.064	S33 MAX ksi:	119.85	Avg. ksi:	4.35
Time:	0.066	S33 MAX ksi:	125.55	Avg. ksi:	7.93
Time:	0.068	S33 MAX ksi:	131.14	Avg. ksi:	10.04
Time:	0.070	S33 MAX ksi:	134.10	Avg. ksi:	10.37
Time:	0.072	S33 MAX ksi:	122.94	Avg. ksi:	17.71
Time:	0.074	S33 MAX ksi:	87.56	Avg. ksi:	19.32
Time:	0.076	S33 MAX ksi:	25.87	Avg. ksi:	2.02
Time:	0.078	S33 MAX ksi:	29.40	Avg. ksi:	4.32
Time:	0.080	S33 MAX ksi:	23.35	Avg. ksi:	3.61
OUTPUT BOLT COUNT : 14					
Time:	0.010	S33 MAX ksi:	0.49	Avg. ksi:	0.00
Time:	0.020	S33 MAX ksi:	0.42	Avg. ksi:	0.00
Time:	0.024	S33 MAX ksi:	16.55	Avg. ksi:	0.06
Time:	0.028	S33 MAX ksi:	38.48	Avg. ksi:	0.00
Time:	0.032	S33 MAX ksi:	51.59	Avg. ksi:	0.00
Time:	0.036	S33 MAX ksi:	76.37	Avg. ksi:	0.00
Time:	0.040	S33 MAX ksi:	89.57	Avg. ksi:	0.00
Time:	0.042	S33 MAX ksi:	90.96	Avg. ksi:	0.00
Time:	0.044	S33 MAX ksi:	90.16	Avg. ksi:	0.00
Time:	0.046	S33 MAX ksi:	90.98	Avg. ksi:	0.00
Time:	0.048	S33 MAX ksi:	92.47	Avg. ksi:	0.00
Time:	0.050	S33 MAX ksi:	94.38	Avg. ksi:	0.00
Time:	0.052	S33 MAX ksi:	94.81	Avg. ksi:	0.00
Time:	0.054	S33 MAX ksi:	97.67	Avg. ksi:	0.00
Time:	0.056	S33 MAX ksi:	101.27	Avg. ksi:	0.00
Time:	0.058	S33 MAX ksi:	102.70	Avg. ksi:	0.00
Time:	0.060	S33 MAX ksi:	105.05	Avg. ksi:	0.00
Time:	0.062	S33 MAX ksi:	110.03	Avg. ksi:	0.17
Time:	0.064	S33 MAX ksi:	112.34	Avg. ksi:	0.00

Time:	0.066	S33 MAX ksi:	111.13	Avg. ksi:	2.88
Time:	0.068	S33 MAX ksi:	97.96	Avg. ksi:	3.81
Time:	0.070	S33 MAX ksi:	92.88	Avg. ksi:	4.02
Time:	0.072	S33 MAX ksi:	82.84	Avg. ksi:	8.26
Time:	0.074	S33 MAX ksi:	34.91	Avg. ksi:	4.09
Time:	0.076	S33 MAX ksi:	51.81	Avg. ksi:	9.56
Time:	0.078	S33 MAX ksi:	52.31	Avg. ksi:	11.03
Time:	0.080	S33 MAX ksi:	43.45	Avg. ksi:	9.38
OUTPUT BOLT COUNT : 15					
Time:	0.010	S33 MAX ksi:	0.22	Avg. ksi:	0.00
Time:	0.020	S33 MAX ksi:	0.23	Avg. ksi:	0.00
Time:	0.024	S33 MAX ksi:	14.62	Avg. ksi:	0.00
Time:	0.028	S33 MAX ksi:	42.00	Avg. ksi:	0.00
Time:	0.032	S33 MAX ksi:	56.19	Avg. ksi:	0.00
Time:	0.036	S33 MAX ksi:	81.44	Avg. ksi:	0.00
Time:	0.040	S33 MAX ksi:	81.97	Avg. ksi:	0.00
Time:	0.042	S33 MAX ksi:	83.97	Avg. ksi:	0.00
Time:	0.044	S33 MAX ksi:	85.25	Avg. ksi:	0.00
Time:	0.046	S33 MAX ksi:	86.03	Avg. ksi:	0.00
Time:	0.048	S33 MAX ksi:	86.61	Avg. ksi:	0.00
Time:	0.050	S33 MAX ksi:	88.85	Avg. ksi:	0.00
Time:	0.052	S33 MAX ksi:	92.58	Avg. ksi:	0.00
Time:	0.054	S33 MAX ksi:	93.67	Avg. ksi:	0.00
Time:	0.056	S33 MAX ksi:	98.90	Avg. ksi:	0.00
Time:	0.058	S33 MAX ksi:	104.19	Avg. ksi:	0.00
Time:	0.060	S33 MAX ksi:	108.33	Avg. ksi:	0.00
Time:	0.062	S33 MAX ksi:	109.66	Avg. ksi:	0.00
Time:	0.064	S33 MAX ksi:	100.97	Avg. ksi:	0.00
Time:	0.066	S33 MAX ksi:	95.26	Avg. ksi:	0.00
Time:	0.068	S33 MAX ksi:	94.89	Avg. ksi:	0.00
Time:	0.070	S33 MAX ksi:	89.71	Avg. ksi:	0.00
Time:	0.072	S33 MAX ksi:	55.86	Avg. ksi:	0.82
Time:	0.074	S33 MAX ksi:	44.84	Avg. ksi:	6.28
Time:	0.076	S33 MAX ksi:	48.87	Avg. ksi:	11.15
Time:	0.078	S33 MAX ksi:	47.24	Avg. ksi:	12.32
Time:	0.080	S33 MAX ksi:	46.04	Avg. ksi:	11.56
OUTPUT BOLT COUNT : 16					
Time:	0.010	S33 MAX ksi:	0.21	Avg. ksi:	0.00
Time:	0.020	S33 MAX ksi:	0.20	Avg. ksi:	0.00
Time:	0.024	S33 MAX ksi:	1.18	Avg. ksi:	0.00
Time:	0.028	S33 MAX ksi:	3.66	Avg. ksi:	0.00
Time:	0.032	S33 MAX ksi:	3.38	Avg. ksi:	0.00
Time:	0.036	S33 MAX ksi:	8.31	Avg. ksi:	0.00
Time:	0.040	S33 MAX ksi:	10.85	Avg. ksi:	0.00
Time:	0.042	S33 MAX ksi:	11.22	Avg. ksi:	0.00
Time:	0.044	S33 MAX ksi:	13.40	Avg. ksi:	0.00
Time:	0.046	S33 MAX ksi:	15.66	Avg. ksi:	0.00
Time:	0.048	S33 MAX ksi:	20.60	Avg. ksi:	0.00
Time:	0.050	S33 MAX ksi:	21.51	Avg. ksi:	0.00
Time:	0.052	S33 MAX ksi:	26.35	Avg. ksi:	0.00
Time:	0.054	S33 MAX ksi:	31.07	Avg. ksi:	0.00
Time:	0.056	S33 MAX ksi:	39.20	Avg. ksi:	0.00
Time:	0.058	S33 MAX ksi:	50.72	Avg. ksi:	0.00
Time:	0.060	S33 MAX ksi:	61.83	Avg. ksi:	0.00
Time:	0.062	S33 MAX ksi:	74.10	Avg. ksi:	0.00
Time:	0.064	S33 MAX ksi:	80.90	Avg. ksi:	0.00
Time:	0.066	S33 MAX ksi:	86.74	Avg. ksi:	0.00
Time:	0.068	S33 MAX ksi:	87.64	Avg. ksi:	0.00
Time:	0.070	S33 MAX ksi:	90.20	Avg. ksi:	0.00
Time:	0.072	S33 MAX ksi:	100.57	Avg. ksi:	0.00
Time:	0.074	S33 MAX ksi:	104.58	Avg. ksi:	0.00
Time:	0.076	S33 MAX ksi:	119.86	Avg. ksi:	0.00
Time:	0.078	S33 MAX ksi:	129.21	Avg. ksi:	0.00
Time:	0.080	S33 MAX ksi:	136.85	Avg. ksi:	0.00

OUTPUT BOLT COUNT : 17					
Time:	0.010	S33 MAX ksi:	0.22	Avg. ksi:	0.00
Time:	0.020	S33 MAX ksi:	0.19	Avg. ksi:	0.00
Time:	0.024	S33 MAX ksi:	7.91	Avg. ksi:	0.00
Time:	0.028	S33 MAX ksi:	20.64	Avg. ksi:	0.00
Time:	0.032	S33 MAX ksi:	20.74	Avg. ksi:	0.00
Time:	0.036	S33 MAX ksi:	45.33	Avg. ksi:	0.00
Time:	0.040	S33 MAX ksi:	57.59	Avg. ksi:	0.00
Time:	0.042	S33 MAX ksi:	65.61	Avg. ksi:	0.00
Time:	0.044	S33 MAX ksi:	73.43	Avg. ksi:	0.00
Time:	0.046	S33 MAX ksi:	79.92	Avg. ksi:	0.00
Time:	0.048	S33 MAX ksi:	82.33	Avg. ksi:	0.00
Time:	0.050	S33 MAX ksi:	79.50	Avg. ksi:	0.00
Time:	0.052	S33 MAX ksi:	82.85	Avg. ksi:	0.00
Time:	0.054	S33 MAX ksi:	80.37	Avg. ksi:	0.00
Time:	0.056	S33 MAX ksi:	85.15	Avg. ksi:	0.00
Time:	0.058	S33 MAX ksi:	89.52	Avg. ksi:	0.00
Time:	0.060	S33 MAX ksi:	93.52	Avg. ksi:	0.00
Time:	0.062	S33 MAX ksi:	98.47	Avg. ksi:	0.00
Time:	0.064	S33 MAX ksi:	100.35	Avg. ksi:	0.00
Time:	0.066	S33 MAX ksi:	104.72	Avg. ksi:	0.00
Time:	0.068	S33 MAX ksi:	108.60	Avg. ksi:	0.00
Time:	0.070	S33 MAX ksi:	101.27	Avg. ksi:	0.00
Time:	0.072	S33 MAX ksi:	98.71	Avg. ksi:	6.97
Time:	0.074	S33 MAX ksi:	71.43	Avg. ksi:	0.00
Time:	0.076	S33 MAX ksi:	39.54	Avg. ksi:	6.31
Time:	0.078	S33 MAX ksi:	49.74	Avg. ksi:	9.59
Time:	0.080	S33 MAX ksi:	48.00	Avg. ksi:	10.93
OUTPUT BOLT COUNT : 18					
Time:	0.010	S33 MAX ksi:	0.39	Avg. ksi:	0.02
Time:	0.020	S33 MAX ksi:	0.41	Avg. ksi:	0.02
Time:	0.024	S33 MAX ksi:	14.88	Avg. ksi:	0.00
Time:	0.028	S33 MAX ksi:	43.17	Avg. ksi:	0.00
Time:	0.032	S33 MAX ksi:	55.78	Avg. ksi:	0.00
Time:	0.036	S33 MAX ksi:	81.83	Avg. ksi:	0.00
Time:	0.040	S33 MAX ksi:	84.13	Avg. ksi:	0.00
Time:	0.042	S33 MAX ksi:	84.11	Avg. ksi:	0.00
Time:	0.044	S33 MAX ksi:	84.94	Avg. ksi:	0.00
Time:	0.046	S33 MAX ksi:	84.66	Avg. ksi:	0.00
Time:	0.048	S33 MAX ksi:	85.78	Avg. ksi:	0.00
Time:	0.050	S33 MAX ksi:	87.33	Avg. ksi:	0.00
Time:	0.052	S33 MAX ksi:	89.00	Avg. ksi:	0.00
Time:	0.054	S33 MAX ksi:	88.45	Avg. ksi:	0.00
Time:	0.056	S33 MAX ksi:	92.15	Avg. ksi:	0.00
Time:	0.058	S33 MAX ksi:	95.81	Avg. ksi:	0.00
Time:	0.060	S33 MAX ksi:	99.79	Avg. ksi:	0.00
Time:	0.062	S33 MAX ksi:	103.51	Avg. ksi:	0.00
Time:	0.064	S33 MAX ksi:	95.02	Avg. ksi:	0.00
Time:	0.066	S33 MAX ksi:	84.80	Avg. ksi:	0.00
Time:	0.068	S33 MAX ksi:	82.53	Avg. ksi:	0.00
Time:	0.070	S33 MAX ksi:	74.74	Avg. ksi:	0.00
Time:	0.072	S33 MAX ksi:	65.10	Avg. ksi:	2.93
Time:	0.074	S33 MAX ksi:	47.48	Avg. ksi:	7.63
Time:	0.076	S33 MAX ksi:	49.84	Avg. ksi:	11.36
Time:	0.078	S33 MAX ksi:	52.42	Avg. ksi:	13.11
Time:	0.080	S33 MAX ksi:	49.56	Avg. ksi:	12.50

STRESS::BASKIN

JOB 809

BP.RPT_OUT;2

File: _\$6\$DRB5:[BASKIN.TEST.CUT.NOPRELOAD_A]BP.RPT_OUT;2
Last Modified: 11-NOV-1997 08:35
Owner UIC: [G42,BASKIN]

Length: 56 blocks
Longest record: 56 bytes
Priority: 100
Submit queue: SYS\$PRINT
Submitted: 11-NOV-1997 08:35
Printer queue: SYS\$PRINT
Printer device: POSTMO::

Digital Equipment Corporation
OpenVMS AXP V6.2

PrintServer 20 POSTMO
DECprint Supervisor V1.2


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Time: 0.028 PEEQ MAX #: 0.00 Avg. #: 0.00
Time: 0.032 PEEQ MAX #: 0.00 Avg. #: 0.00
Time: 0.036 PEEQ MAX #: 0.00 Avg. #: 0.00
Time: 0.040 PEEQ MAX #: 0.09 Avg. #: 0.03
Time: 0.042 PEEQ MAX #: 0.22 Avg. #: 0.11
Time: 0.044 PEEQ MAX #: 0.35 Avg. #: 0.24
Time: 0.046 PEEQ MAX #: 0.51 Avg. #: 0.39
Time: 0.048 PEEQ MAX #: 0.67 Avg. #: 0.54
Time: 0.050 PEEQ MAX #: 0.83 Avg. #: 0.70
Time: 0.052 PEEQ MAX #: 1.05 Avg. #: 0.90
Time: 0.054 PEEQ MAX #: 1.36 Avg. #: 1.19
Time: 0.056 PEEQ MAX #: 1.74 Avg. #: 1.54
Time: 0.058 PEEQ MAX #: 2.15 Avg. #: 1.96
Time: 0.060 PEEQ MAX #: 2.60 Avg. #: 2.41
Time: 0.062 PEEQ MAX #: 3.06 Avg. #: 2.89
Time: 0.064 PEEQ MAX #: 3.59 Avg. #: 3.36
Time: 0.066 PEEQ MAX #: 4.22 Avg. #: 3.79
Time: 0.068 PEEQ MAX #: 4.66 Avg. #: 4.26
Time: 0.070 PEEQ MAX #: 6.91 Avg. #: 5.11
Time: 0.072 PEEQ MAX #: 11.84 Avg. #: 9.00
Time: 0.074 PEEQ MAX #: 12.87 Avg. #: 12.87
Time: 0.076 PEEQ MAX #: 12.87 Avg. #: 12.87
Time: 0.078 PEEQ MAX #: 12.87 Avg. #: 12.87
Time: 0.080 PEEQ MAX #: 12.87 Avg. #: 12.87
OUTPUT BOLT COUNT : 11
Time: 0.010 PEEQ MAX #: 0.00 Avg. #: 0.00
Time: 0.020 PEEQ MAX #: 0.00 Avg. #: 0.00
Time: 0.024 PEEQ MAX #: 0.00 Avg. #: 0.00
Time: 0.028 PEEQ MAX #: 0.00 Avg. #: 0.00
Time: 0.032 PEEQ MAX #: 0.00 Avg. #: 0.00
Time: 0.036 PEEQ MAX #: 0.14 Avg. #: 0.04
Time: 0.040 PEEQ MAX #: 0.48 Avg. #: 0.22
Time: 0.042 PEEQ MAX #: 0.79 Avg. #: 0.37
Time: 0.044 PEEQ MAX #: 0.98 Avg. #: 0.56
Time: 0.046 PEEQ MAX #: 1.25 Avg. #: 0.74
Time: 0.048 PEEQ MAX #: 1.53 Avg. #: 0.94
Time: 0.050 PEEQ MAX #: 1.80 Avg. #: 1.13
Time: 0.052 PEEQ MAX #: 2.10 Avg. #: 1.36
Time: 0.054 PEEQ MAX #: 2.47 Avg. #: 1.65
Time: 0.056 PEEQ MAX #: 2.91 Avg. #: 2.02
Time: 0.058 PEEQ MAX #: 3.39 Avg. #: 2.47
Time: 0.060 PEEQ MAX #: 3.89 Avg. #: 2.95
Time: 0.062 PEEQ MAX #: 4.37 Avg. #: 3.44
Time: 0.064 PEEQ MAX #: 4.75 Avg. #: 3.83
Time: 0.066 PEEQ MAX #: 4.93 Avg. #: 4.34
Time: 0.068 PEEQ MAX #: 5.87 Avg. #: 4.98
Time: 0.070 PEEQ MAX #: 8.04 Avg. #: 6.43
Time: 0.072 PEEQ MAX #: 12.87 Avg. #: 12.87
Time: 0.074 PEEQ MAX #: 12.87 Avg. #: 12.87
Time: 0.076 PEEQ MAX #: 12.87 Avg. #: 12.87
Time: 0.078 PEEQ MAX #: 12.87 Avg. #: 12.87
Time: 0.080 PEEQ MAX #: 12.87 Avg. #: 12.87
OUTPUT BOLT COUNT : 12
Time: 0.010 PEEQ MAX #: 0.00 Avg. #: 0.00
Time: 0.020 PEEQ MAX #: 0.00 Avg. #: 0.00
Time: 0.024 PEEQ MAX #: 0.00 Avg. #: 0.00
Time: 0.028 PEEQ MAX #: 0.00 Avg. #: 0.00
Time: 0.032 PEEQ MAX #: 0.00 Avg. #: 0.00
Time: 0.036 PEEQ MAX #: 0.00 Avg. #: 0.00
Time: 0.040 PEEQ MAX #: 0.00 Avg. #: 0.00
Time: 0.042 PEEQ MAX #: 0.00 Avg. #: 0.00
Time: 0.044 PEEQ MAX #: 0.00 Avg. #: 0.00
Time: 0.046 PEEQ MAX #: 0.00 Avg. #: 0.00
Time: 0.048 PEEQ MAX #: 0.00 Avg. #: 0.00

```

\$65DRB5: [BASKIN, TEST, CUT, NOPRELOAD A]BP, RPT OUT: 2 11-NOV-1997 08:35 Page 7

```

Time : 0.066 PEEQ MAX % : 4.54 Avg. % : 4.13
Time : 0.068 PEEQ MAX % : 5.94 Avg. % : 4.72
Time : 0.070 PEEQ MAX % : 8.02 Avg. % : 6.09
Time : 0.072 PEEQ MAX % : 12.87 Avg. % : 11.94 ←
Time : 0.074 PEEQ MAX % : 12.87 Avg. % : 12.87
Time : 0.076 PEEQ MAX % : 12.87 Avg. % : 12.87
Time : 0.078 PEEQ MAX % : 12.87 Avg. % : 12.87
Time : 0.080 PEEQ MAX % : 12.87 Avg. % : 12.87
OUTPUT BOLT COUNT : 15
Time : 0.010 PEEQ MAX % : 0.00 Avg. % : 0.00
Time : 0.020 PEEQ MAX % : 0.00 Avg. % : 0.00
Time : 0.024 PEEQ MAX % : 0.00 Avg. % : 0.00
Time : 0.028 PEEQ MAX % : 0.00 Avg. % : 0.00
Time : 0.032 PEEQ MAX % : 0.00 Avg. % : 0.00
Time : 0.036 PEEQ MAX % : 0.20 Avg. % : 0.09
Time : 0.040 PEEQ MAX % : 0.56 Avg. % : 0.33
Time : 0.042 PEEQ MAX % : 0.75 Avg. % : 0.51
Time : 0.044 PEEQ MAX % : 0.99 Avg. % : 0.72
Time : 0.046 PEEQ MAX % : 1.22 Avg. % : 0.93
Time : 0.048 PEEQ MAX % : 1.47 Avg. % : 1.14
Time : 0.050 PEEQ MAX % : 1.72 Avg. % : 1.35
Time : 0.052 PEEQ MAX % : 2.00 Avg. % : 1.59
Time : 0.054 PEEQ MAX % : 2.35 Avg. % : 1.93
Time : 0.056 PEEQ MAX % : 2.77 Avg. % : 2.34
Time : 0.058 PEEQ MAX % : 3.19 Avg. % : 2.78
Time : 0.060 PEEQ MAX % : 3.64 Avg. % : 3.26
Time : 0.062 PEEQ MAX % : 4.08 Avg. % : 3.77
Time : 0.064 PEEQ MAX % : 4.37 Avg. % : 4.21
Time : 0.066 PEEQ MAX % : 5.67 Avg. % : 4.72
Time : 0.068 PEEQ MAX % : 7.68 Avg. % : 6.06
Time : 0.070 PEEQ MAX % : 9.90 Avg. % : 7.68
Time : 0.072 PEEQ MAX % : 12.87 Avg. % : 12.87 ←
Time : 0.074 PEEQ MAX % : 12.87 Avg. % : 12.87
Time : 0.076 PEEQ MAX % : 12.87 Avg. % : 12.87
Time : 0.078 PEEQ MAX % : 12.87 Avg. % : 12.87
Time : 0.080 PEEQ MAX % : 12.87 Avg. % : 12.87
OUTPUT BOLT COUNT : 16
Time : 0.010 PEEQ MAX % : 0.00 Avg. % : 0.00
Time : 0.020 PEEQ MAX % : 0.00 Avg. % : 0.00
Time : 0.024 PEEQ MAX % : 0.00 Avg. % : 0.00
Time : 0.028 PEEQ MAX % : 0.00 Avg. % : 0.00
Time : 0.032 PEEQ MAX % : 0.00 Avg. % : 0.00
Time : 0.036 PEEQ MAX % : 0.00 Avg. % : 0.00
Time : 0.040 PEEQ MAX % : 0.00 Avg. % : 0.00
Time : 0.042 PEEQ MAX % : 0.00 Avg. % : 0.00
Time : 0.044 PEEQ MAX % : 0.00 Avg. % : 0.00
Time : 0.046 PEEQ MAX % : 0.00 Avg. % : 0.00
Time : 0.048 PEEQ MAX % : 0.00 Avg. % : 0.00
Time : 0.050 PEEQ MAX % : 0.00 Avg. % : 0.00
Time : 0.052 PEEQ MAX % : 0.00 Avg. % : 0.00
Time : 0.054 PEEQ MAX % : 0.00 Avg. % : 0.00
Time : 0.056 PEEQ MAX % : 0.00 Avg. % : 0.00
Time : 0.058 PEEQ MAX % : 0.00 Avg. % : 0.00
Time : 0.060 PEEQ MAX % : 0.00 Avg. % : 0.00
Time : 0.062 PEEQ MAX % : 0.09 Avg. % : 0.02
Time : 0.064 PEEQ MAX % : 0.20 Avg. % : 0.07
Time : 0.066 PEEQ MAX % : 0.31 Avg. % : 0.12
Time : 0.068 PEEQ MAX % : 0.41 Avg. % : 0.17
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Time : 0.072 PEEQ MAX % : 0.85 Avg. % : 0.44
Time : 0.074 PEEQ MAX % : 1.39 Avg. % : 0.68
Time : 0.076 PEEQ MAX % : 2.70 Avg. % : 3.49
Time : 0.078 PEEQ MAX % : 3.98 Avg. % : 2.40
Time : 0.080 PEEQ MAX % : 5.34 Avg. % : 3.41

```

\$6\$DRE5: (BASKIN.TEST.CUT.NOPRELOAD A)BP.RPT OUT;2 11-NOV-1997 08:35 Page 6

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Time: 0.050 PEEQ MAX #: 0.00 Avg. #: 0.00
Time: 0.052 PEEQ MAX #: 0.00 Avg. #: 0.00
Time: 0.054 PEEQ MAX #: 0.00 Avg. #: 0.00
Time: 0.056 PEEQ MAX #: 0.00 Avg. #: 0.00
Time: 0.058 PEEQ MAX #: 0.00 Avg. #: 0.00
Time: 0.060 PEEQ MAX #: 0.01 Avg. #: 0.00
Time: 0.062 PEEQ MAX #: 0.09 Avg. #: 0.03
Time: 0.064 PEEQ MAX #: 0.21 Avg. #: 0.08
Time: 0.066 PEEQ MAX #: 0.33 Avg. #: 0.14
Time: 0.068 PEEQ MAX #: 0.48 Avg. #: 0.23
Time: 0.070 PEEQ MAX #: 0.64 Avg. #: 0.33
Time: 0.072 PEEQ MAX #: 1.10 Avg. #: 0.62
Time: 0.074 PEEQ MAX #: 1.39 Avg. #: 0.77
Time: 0.076 PEEQ MAX #: 2.31 Avg. #: 1.77
Time: 0.078 PEEQ MAX #: 3.12 Avg. #: 2.11
Time: 0.080 PEEQ MAX #: 4.06 Avg. #: 2.78

OUTPUT BOLT COUNT : 13
Time: 0.010 PEEQ MAX #: 0.00 Avg. #: 0.00
Time: 0.020 PEEQ MAX #: 0.00 Avg. #: 0.00
Time: 0.024 PEEQ MAX #: 0.00 Avg. #: 0.00
Time: 0.028 PEEQ MAX #: 0.00 Avg. #: 0.00
Time: 0.032 PEEQ MAX #: 0.00 Avg. #: 0.00
Time: 0.036 PEEQ MAX #: 0.00 Avg. #: 0.00
Time: 0.040 PEEQ MAX #: 0.00 Avg. #: 0.00
Time: 0.042 PEEQ MAX #: 0.02 Avg. #: 0.01
Time: 0.044 PEEQ MAX #: 0.11 Avg. #: 0.03
Time: 0.046 PEEQ MAX #: 0.20 Avg. #: 0.06
Time: 0.048 PEEQ MAX #: 0.31 Avg. #: 0.11
Time: 0.050 PEEQ MAX #: 0.42 Avg. #: 0.15
Time: 0.052 PEEQ MAX #: 0.56 Avg. #: 0.25
Time: 0.054 PEEQ MAX #: 0.79 Avg. #: 0.41
Time: 0.056 PEEQ MAX #: 1.02 Avg. #: 0.69
Time: 0.058 PEEQ MAX #: 1.30 Avg. #: 1.01
Time: 0.060 PEEQ MAX #: 1.71 Avg. #: 1.38
Time: 0.062 PEEQ MAX #: 2.22 Avg. #: 1.79
Time: 0.064 PEEQ MAX #: 2.72 Avg. #: 2.23
Time: 0.066 PEEQ MAX #: 3.30 Avg. #: 2.65
Time: 0.068 PEEQ MAX #: 3.91 Avg. #: 3.08
Time: 0.070 PEEQ MAX #: 4.47 Avg. #: 3.47
Time: 0.072 PEEQ MAX #: 5.90 Avg. #: 4.42
Time: 0.074 PEEQ MAX #: 11.28 Avg. #: 7.93
Time: 0.076 PEEQ MAX #: 12.87 Avg. #: 12.87
Time: 0.078 PEEQ MAX #: 12.87 Avg. #: 12.87
Time: 0.080 PEEQ MAX #: 12.87 Avg. #: 12.87

OUTPUT BOLT COUNT : 14
Time: 0.010 PEEQ MAX #: 0.00 Avg. #: 0.00
Time: 0.020 PEEQ MAX #: 0.00 Avg. #: 0.00
Time: 0.024 PEEQ MAX #: 0.00 Avg. #: 0.00
Time: 0.028 PEEQ MAX #: 0.00 Avg. #: 0.00
Time: 0.032 PEEQ MAX #: 0.00 Avg. #: 0.00
Time: 0.036 PEEQ MAX #: 0.02 Avg. #: 0.01
Time: 0.040 PEEQ MAX #: 0.25 Avg. #: 0.10
Time: 0.042 PEEQ MAX #: 0.40 Avg. #: 0.22
Time: 0.044 PEEQ MAX #: 0.56 Avg. #: 0.37
Time: 0.046 PEEQ MAX #: 0.73 Avg. #: 0.54
Time: 0.048 PEEQ MAX #: 0.91 Avg. #: 0.79
Time: 0.050 PEEQ MAX #: 1.08 Avg. #: 0.87
Time: 0.052 PEEQ MAX #: 1.29 Avg. #: 1.08
Time: 0.054 PEEQ MAX #: 1.62 Avg. #: 1.39
Time: 0.056 PEEQ MAX #: 2.00 Avg. #: 1.77
Time: 0.058 PEEQ MAX #: 2.45 Avg. #: 2.21
Time: 0.060 PEEQ MAX #: 2.90 Avg. #: 2.69
Time: 0.062 PEEQ MAX #: 3.36 Avg. #: 3.11
Time: 0.064 PEEQ MAX #: 3.78 Avg. #: 3.66

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STRESS::BASKIN

JOB 812

BP_PLOT.PS;3

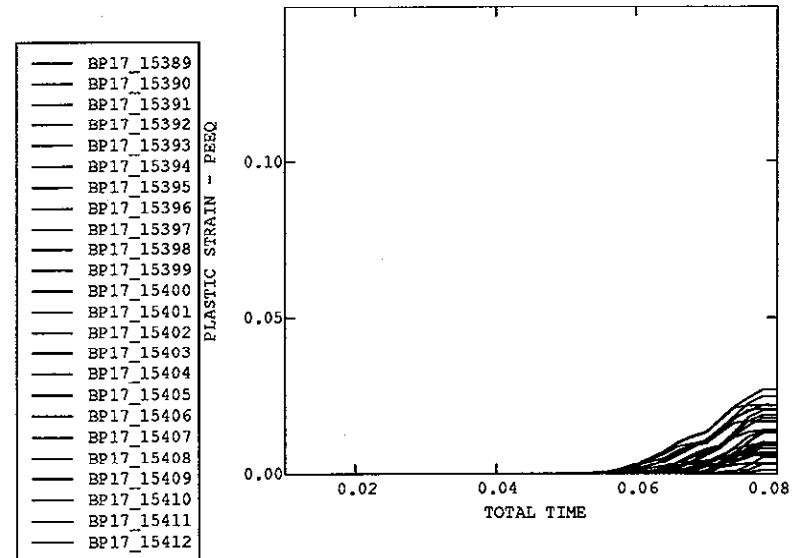
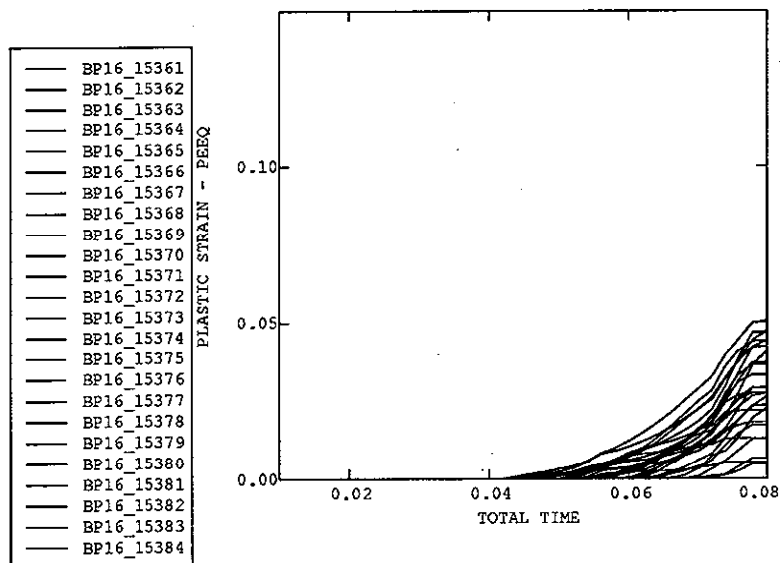
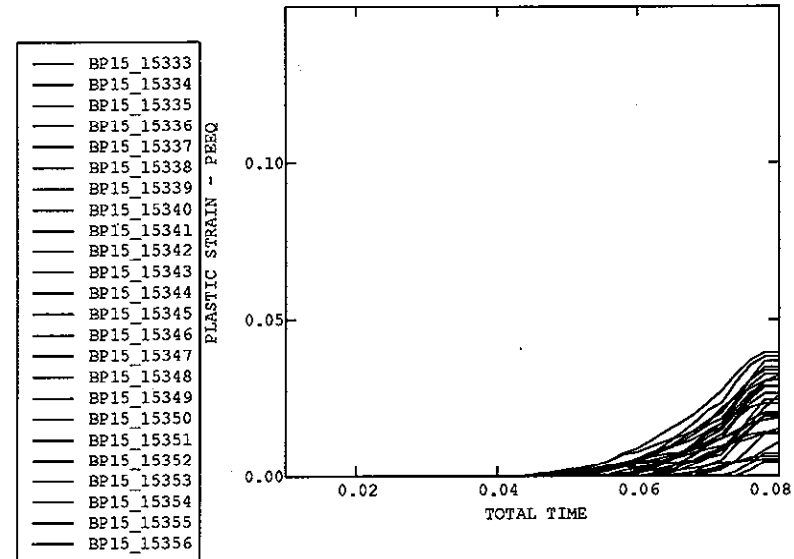
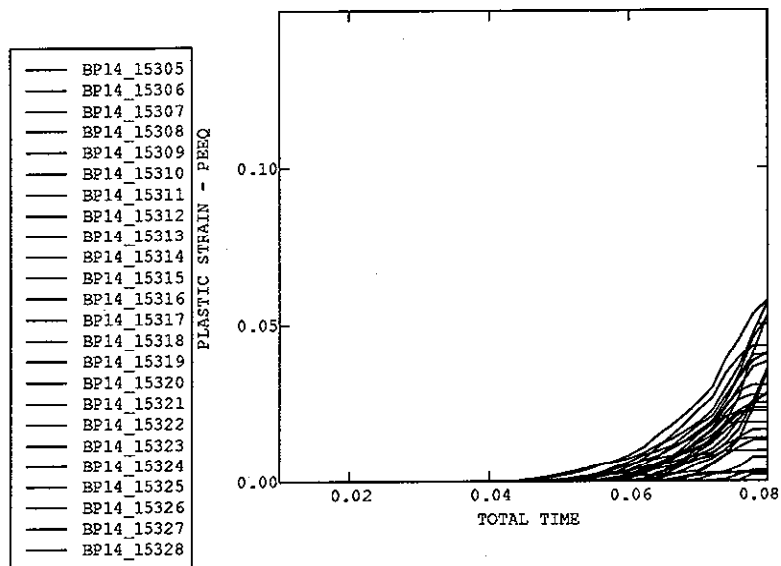
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Owner UIC: [G42,BASKIN]

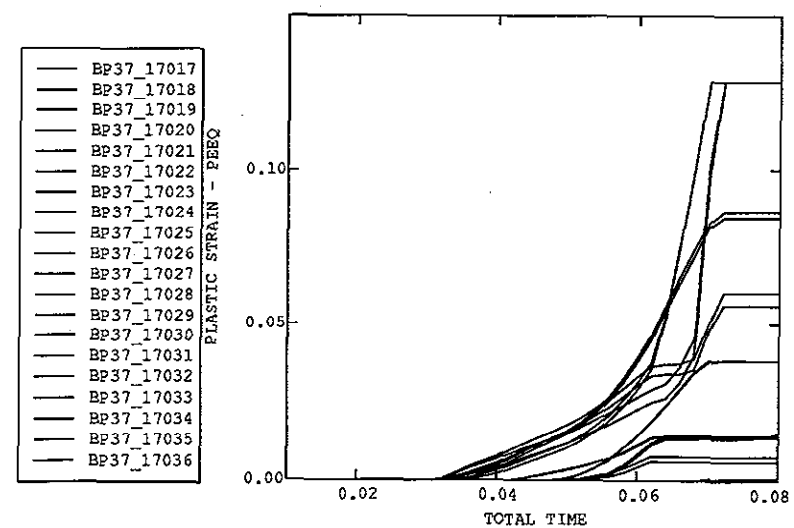
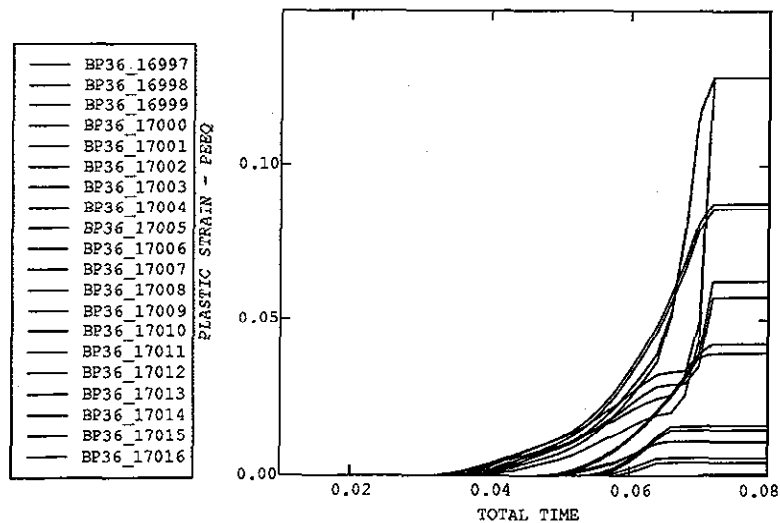
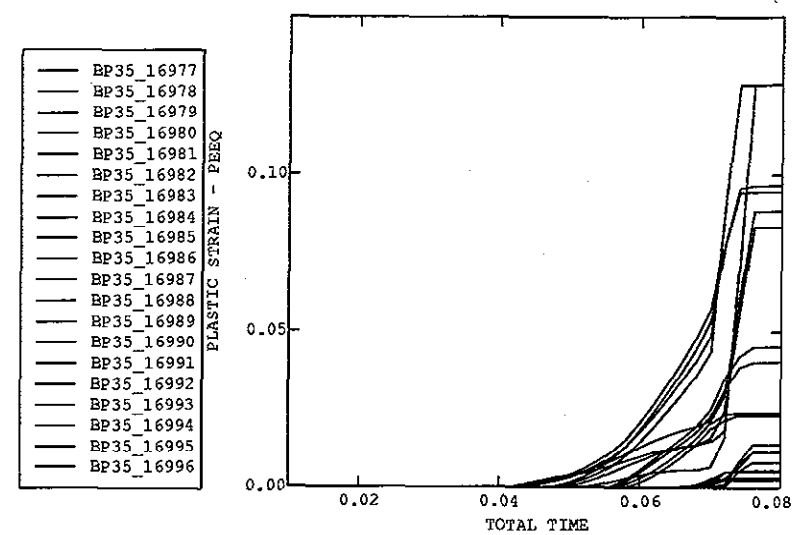
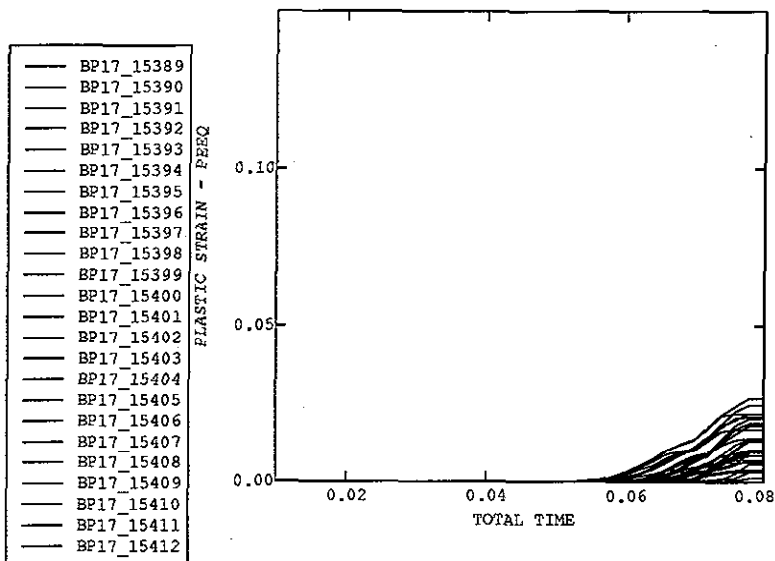
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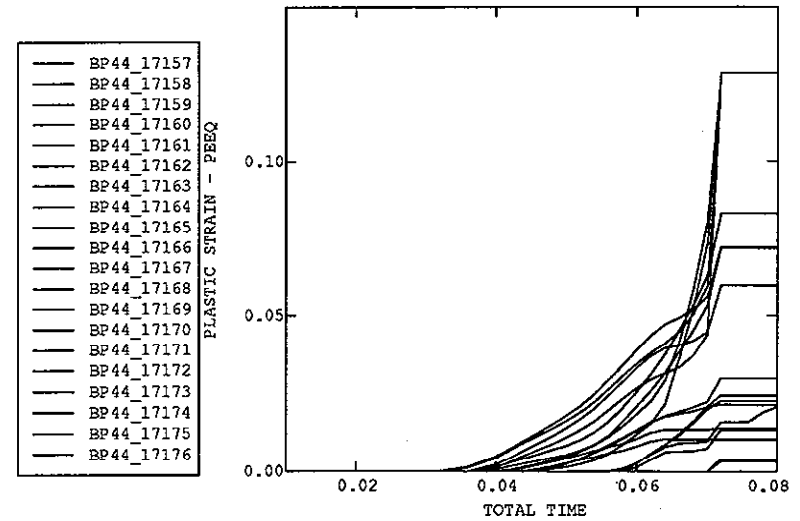
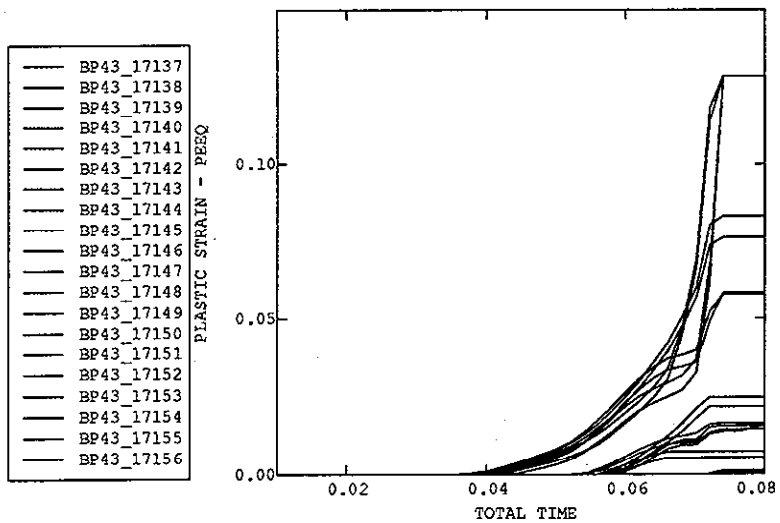
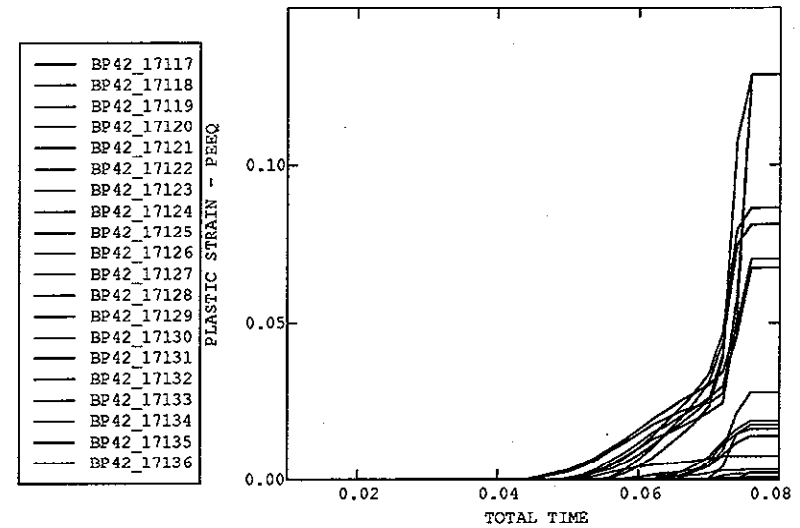
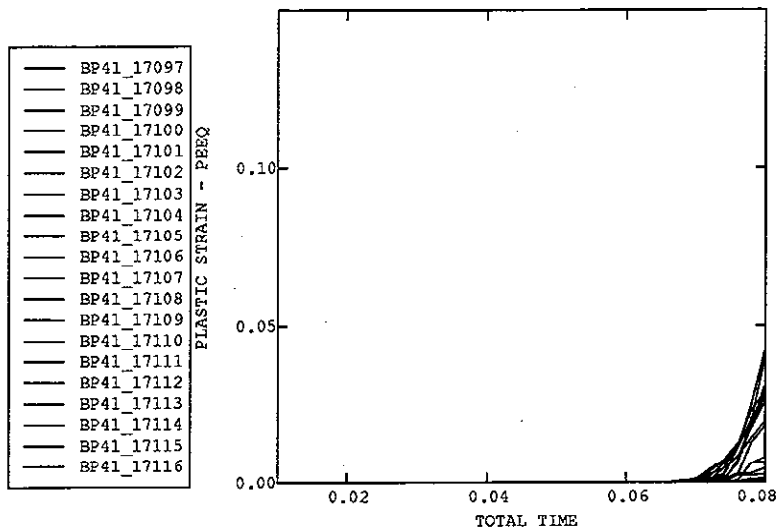
Digital Equipment Corporation
OpenVMS AXP V6.2

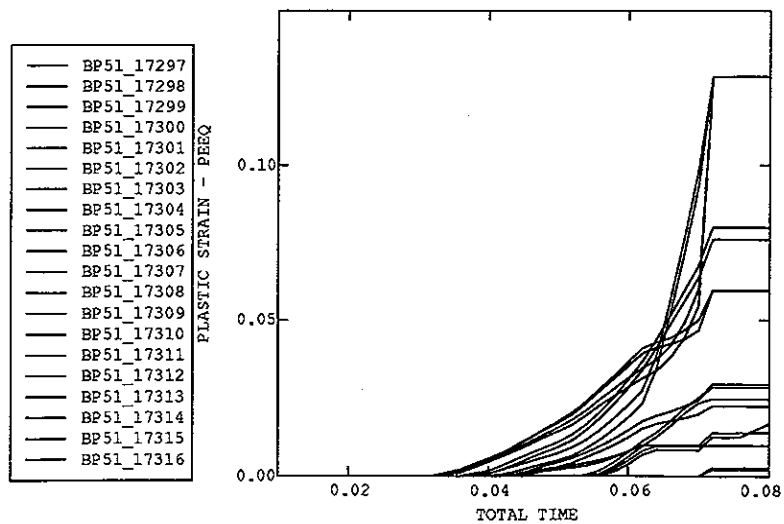
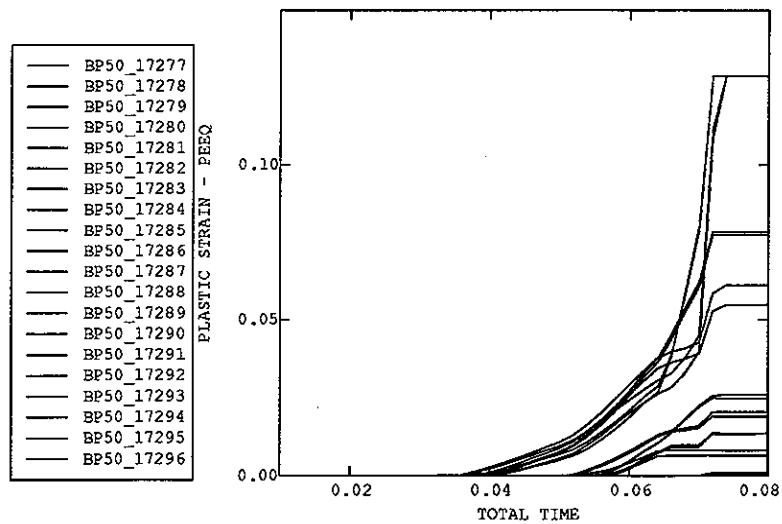
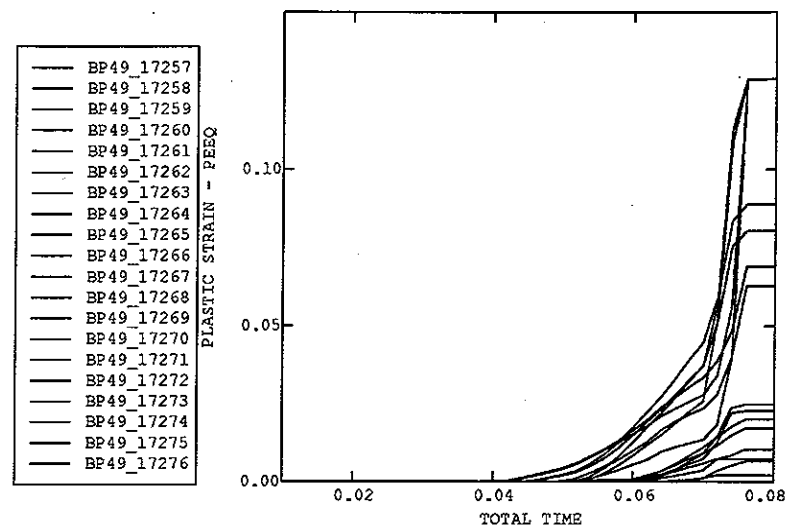
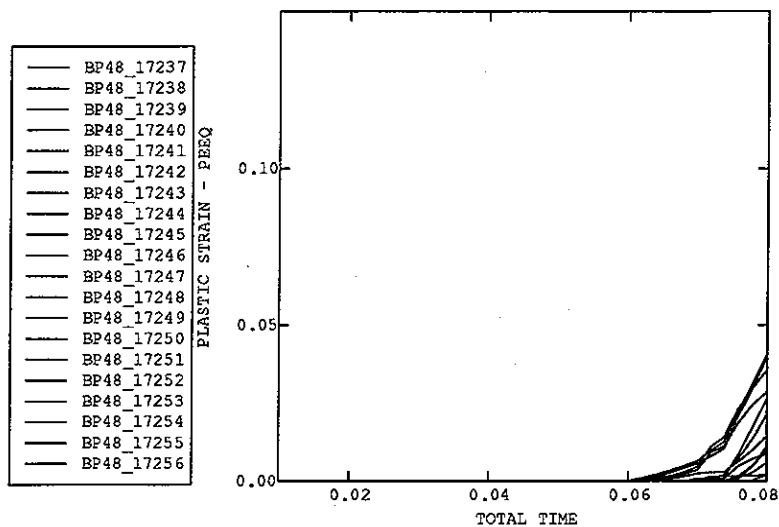
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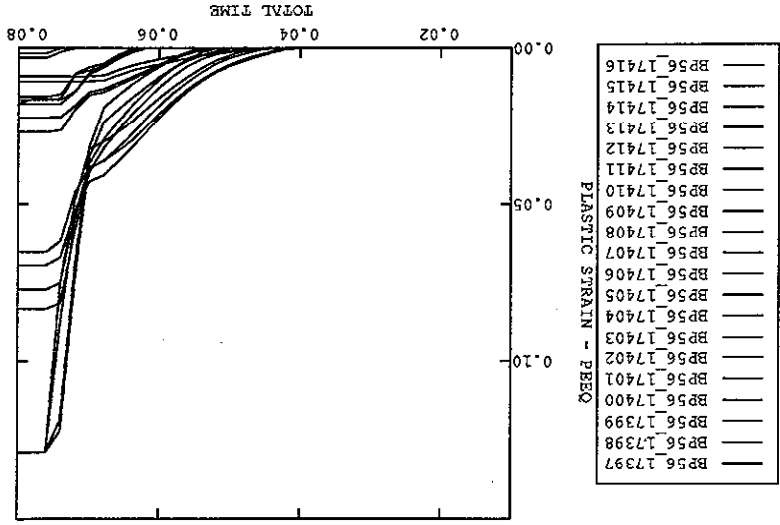
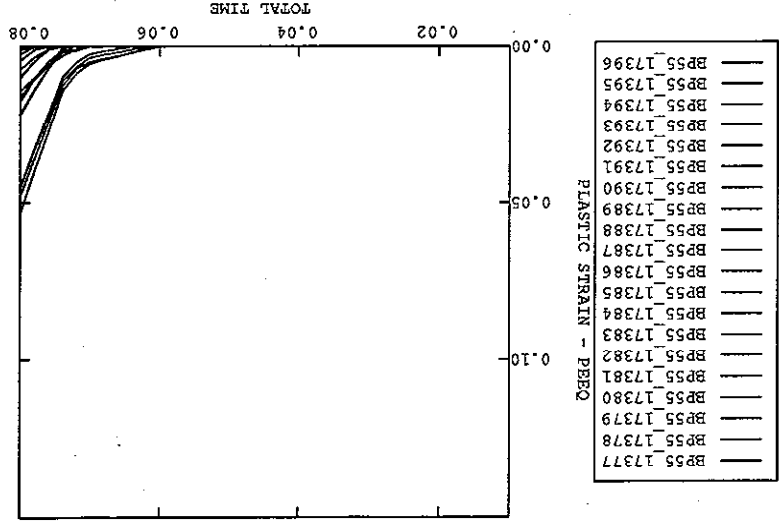
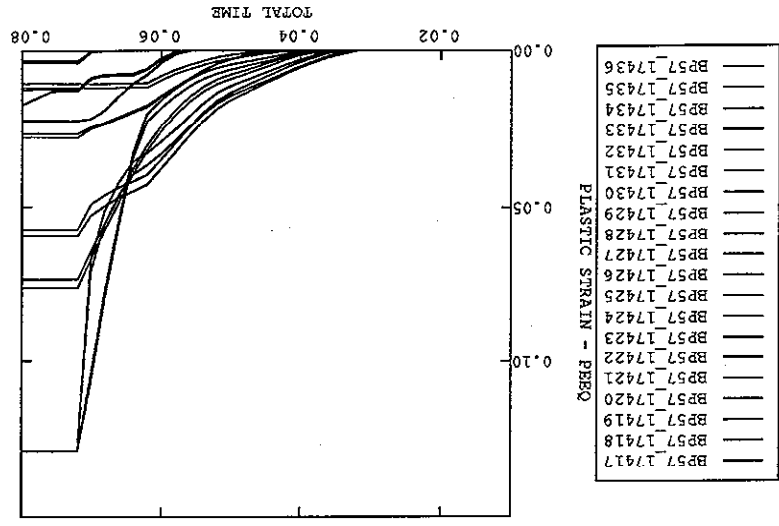
Item G-11 : Figure: Bolt Plastic Strain History Plots

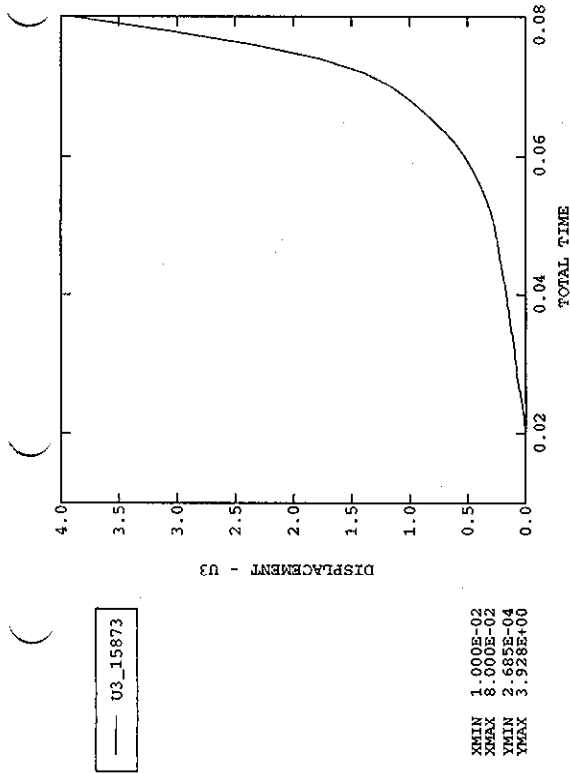






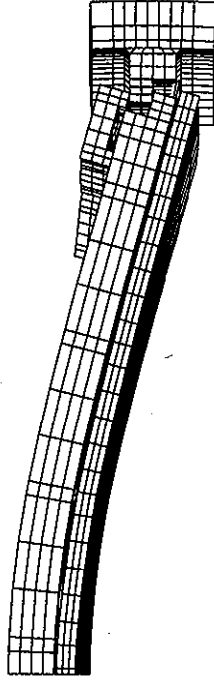






XMIN 1.000E-02
 XMAX 8.000E-02
 YMIN 2.685E-04
 YMAX 3.928E+00

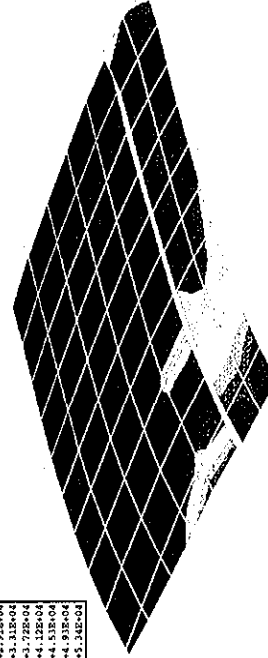
Maximum displacement = 3.990 at node 85335



DISPLACEMENT MAGNIFICATION FACTOR = 1.00
 TIME COMPLETED IN THIS STEP 2.000E-02 TOTAL ACCUMULATED TIME 8.000E-02
 ABAQUS VERSION: 5.5-1 DATE: 02-NOV-97 TIME: 10:43:44
 STEP 4 INCREMENT 50192

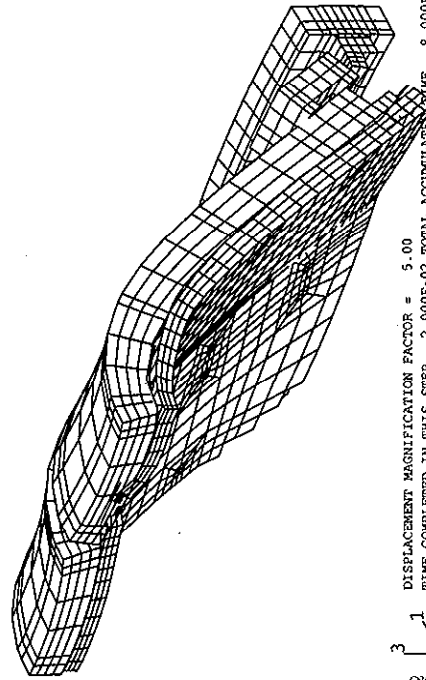


Maximum value = 5.3403E+04 at node 85337
 Minimum value = 852.4 at node 85471



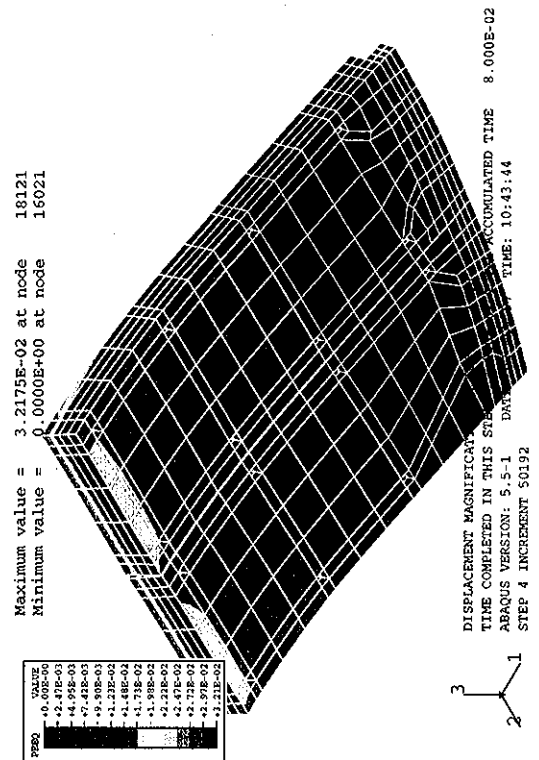
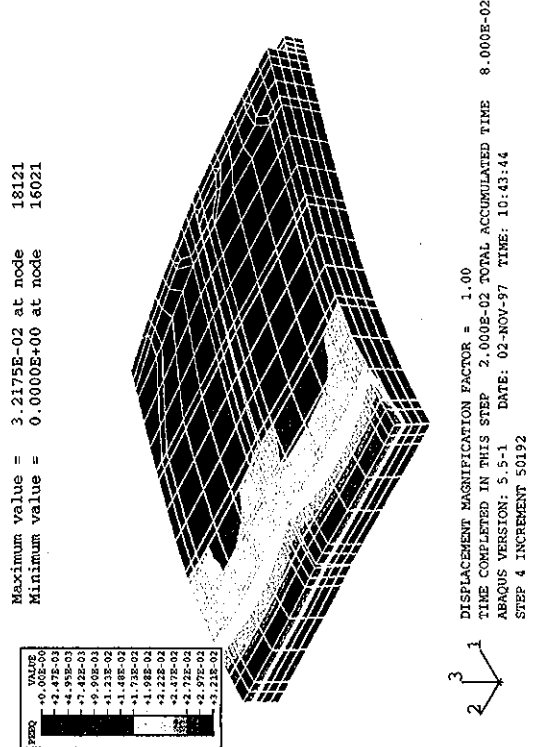
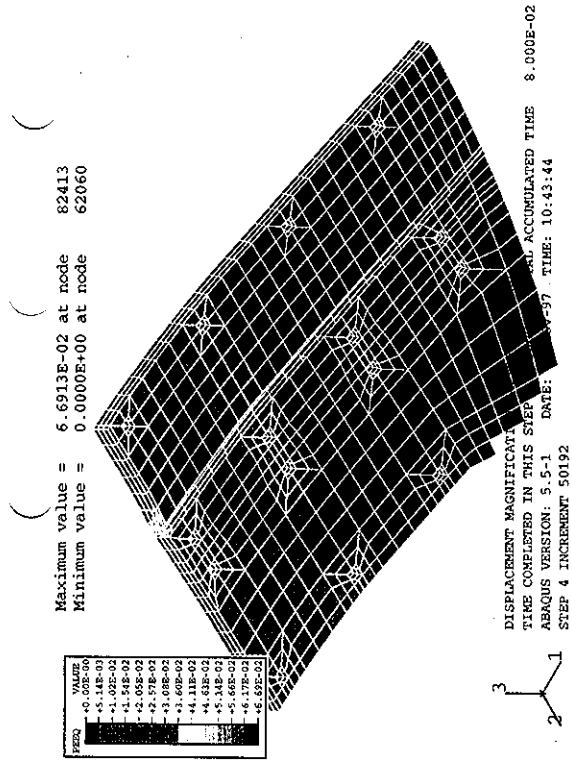
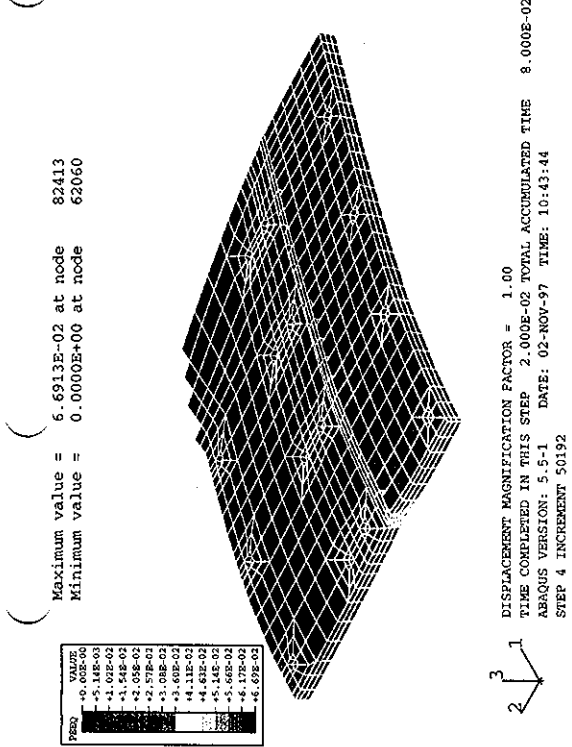
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 ABAQUS VERSION: 5.5-1 DATE: 02-NOV-97 TIME: 10:43:44
 STEP 4 INCREMENT 50192

Maximum displacement = 3.990 at node 85335



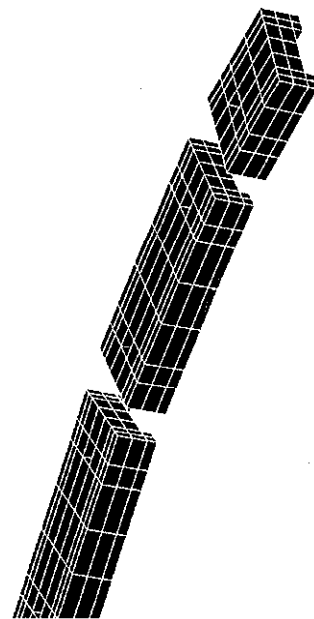
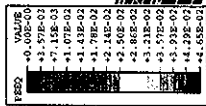
DISPLACEMENT MAGNIFICATION FACTOR = 5.00
 TIME COMPLETED IN THIS STEP 2.000E-02 TOTAL ACCUMULATED TIME 8.000E-02
 ABAQUS VERSION: 5.5-1 DATE: 02-NOV-97 TIME: 10:43:44
 STEP 4 INCREMENT 50192

Item G-17 : Figure: Model Displacement and Sealing Skin Mises Contour Plots



Item G-18 : Figure: Clamp Plate and Divider Plate Plastic Strain Contour Plots

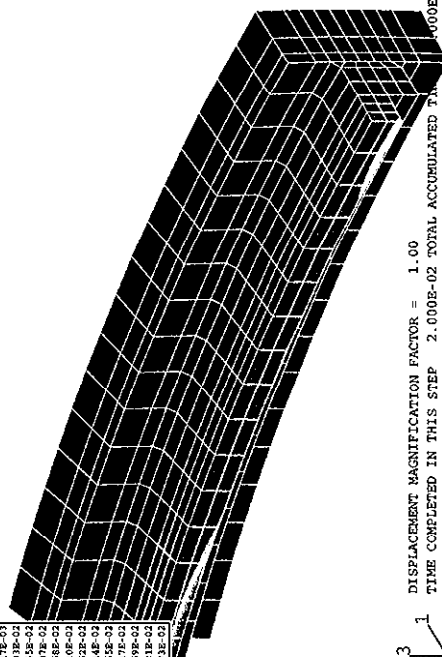
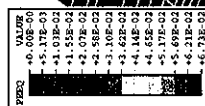
Maximum value = 4.6510E-02 at node 4108
Minimum value = 0.0000E+00 at node 3184



DISPLACEMENT MAGNIFICATION FACTOR = 1.00
TIME COMPLETED IN THIS STEP 2.000E-02 TOTAL ACCUMULATED TIME 8.000E-02
ABAQUS VERSION: 5.5-1 DATE: 02-NOV-97 TIME: 10:43:44
STEP 4 INCREMENT 50192



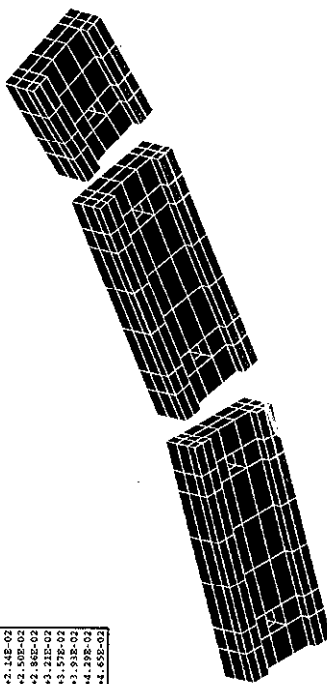
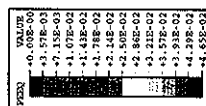
Maximum value = 6.7302E-02 at node 39591
Minimum value = 0.0000E+00 at node 39550



DISPLACEMENT MAGNIFICATION FACTOR = 1.00
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ABAQUS VERSION: 5.5-1 DATE: 02-NOV-97 TIME: 10:43:44
STEP 4 INCREMENT 50192



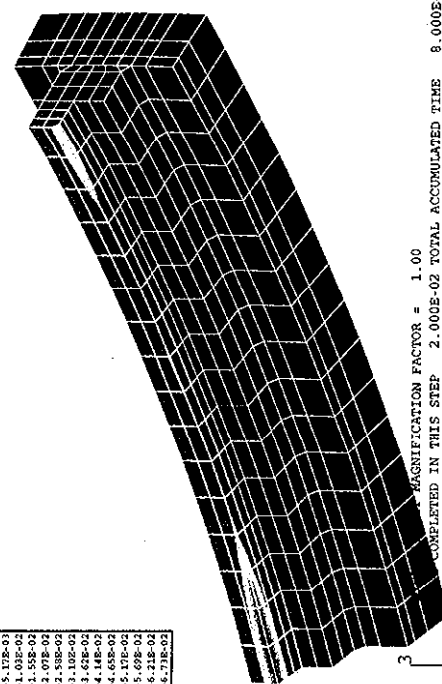
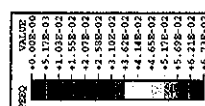
Maximum value = 4.6510E-02 at node 4108
Minimum value = 0.0000E+00 at node 3184



DISPLACEMENT MAGNIFICATION FACTOR = 1.00
TIME COMPLETED IN THIS STEP 2.000E-02 TOTAL ACCUMULATED TIME 8.000E-02
ABAQUS VERSION: 5.5-1 DATE: 02-NOV-97 TIME: 10:43:44
STEP 4 INCREMENT 50192



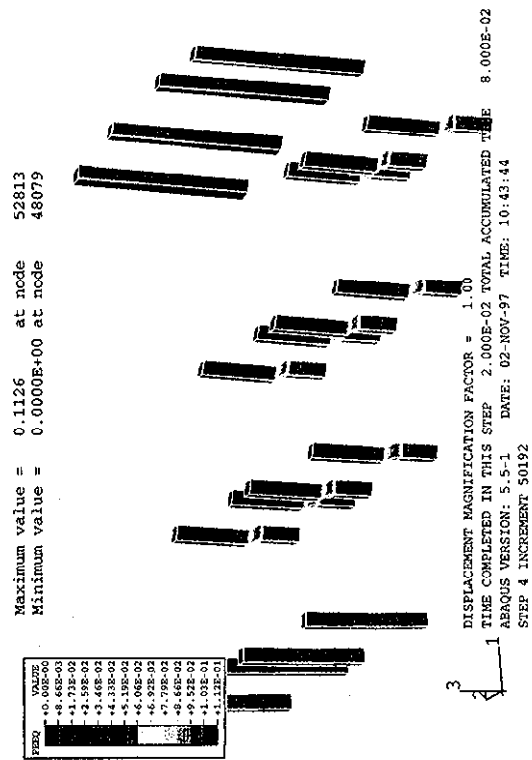
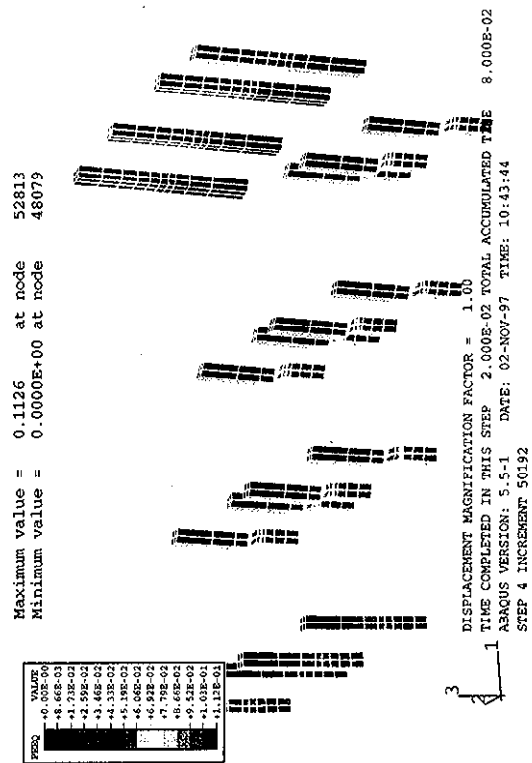
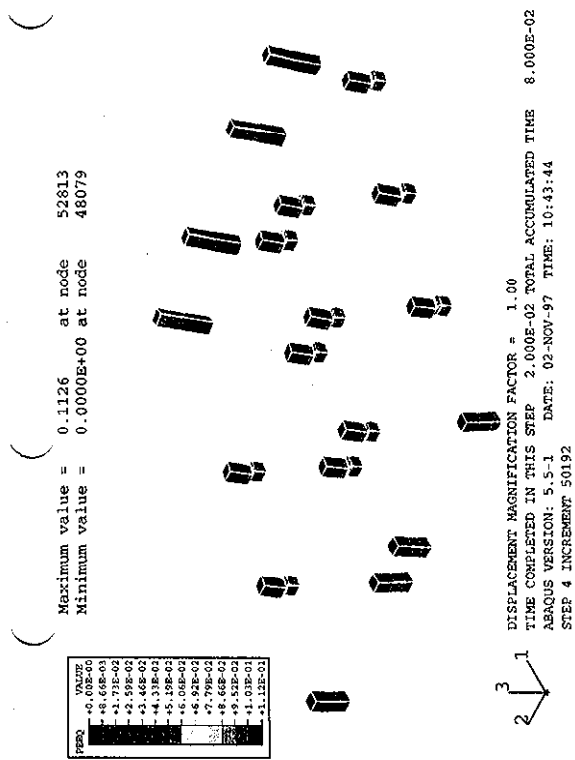
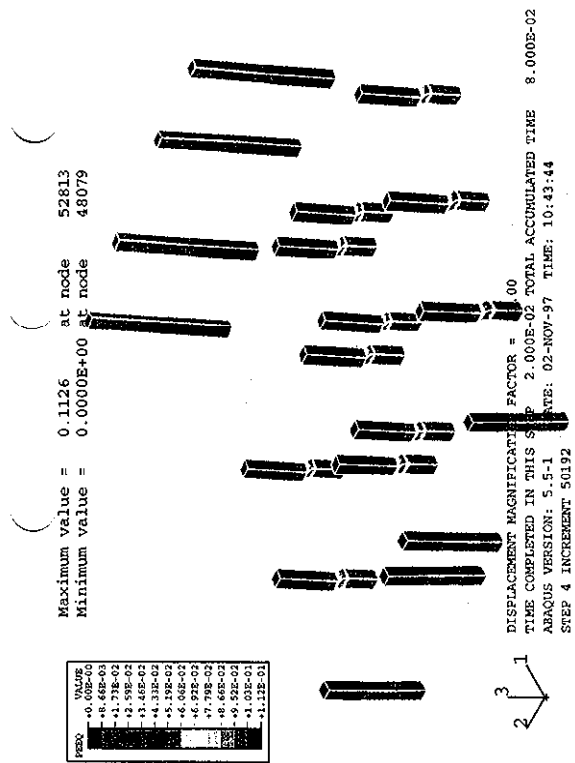
Maximum value = 6.7302E-02 at node 39591
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DISPLACEMENT MAGNIFICATION FACTOR = 1.00
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ABAQUS VERSION: 5.5-1 DATE: 02-NOV-97 TIME: 10:43:44
STEP 4 INCREMENT 50192



Item G-19 : Figure: Clamp Dogs and Seat Bar Plastic Strain Contour Plots



Item G-20 : Figure:: Bolt Plastic Strain Contour Plots

