

Appendix H

Test Case - No Preload - Material B

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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		

```

*** Program VOL_HIS ***
Read displacements from run EXT_NOPRELOAD_B_C
Output file ID = VOL_HIS_NOPRELOAD_B
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

```

$V = \text{Sum_of_}(U_i \cdot A_i)$, where $U_i = \text{Ave. displ of elt.}$ $A_i = \text{elt. area}$

$V_c = U_{85418} \cdot A_{\text{total}}$

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	19.04	37.51	0.5077	0.1566
4.0000E-02	100.0	23.37	40.65	0.5749	0.1697
4.2000E-02	110.0	26.01	47.79	0.5442	0.1995
4.4000E-02	120.0	28.67	55.33	0.5181	0.2310
4.6000E-02	130.0	31.24	61.61	0.5070	0.2572
4.8000E-02	140.0	33.82	66.64	0.5075	0.2782
5.0000E-02	150.0	36.71	69.66	0.5270	0.2908
5.2000E-02	160.0	40.26	73.95	0.5445	0.3087
5.4000E-02	170.0	45.12	80.44	0.5609	0.3358
5.6000E-02	180.0	51.14	89.33	0.5725	0.3729
5.8000E-02	190.0	57.49	104.1	0.5524	0.4345
6.0000E-02	200.0	64.51	121.5	0.5309	0.5072
6.2000E-02	210.0	73.12	137.8	0.5307	0.5751
6.4000E-02	220.0	84.39	153.3	0.5503	0.6401
6.6000E-02	230.0	99.24	184.7	0.5372	0.7712
6.8000E-02	240.0	117.5	225.9	0.5200	0.9432
*→ 7.0000E-02	250.0	138.6	260.9	0.5313	1.089
7.2000E-02	260.0	167.6	346.6	0.4837	1.447
7.4000E-02	270.0	219.2	391.2	0.5604	1.633
7.6000E-02	280.0	296.5	527.0	0.5626	2.200
7.8000E-02	290.0	398.1	716.0	0.5560	2.989
8.0000E-02	300.0	517.8	938.1	0.5519	3.916

* FIRST BOLT FAILURE

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** 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		9.4481E-02
3.6000E-02		0.1346
4.0000E-02		0.1644
4.2000E-02		0.1831
4.4000E-02		0.2018
4.6000E-02		0.2194
4.8000E-02		0.2373
5.0000E-02		0.2581
5.2000E-02		0.2840
5.4000E-02		0.3192
5.6000E-02		0.3627
5.8000E-02		0.4098
6.0000E-02		0.4624
6.2000E-02		0.5282
6.4000E-02		0.6139
6.6000E-02		0.7281
6.8000E-02		0.8683
7.0000E-02		1.031
7.2000E-02		1.272
7.4000E-02		1.649
7.6000E-02		2.257
7.8000E-02		3.024
8.0000E-02		3.893

**

STRESS::BASKIN

JOB 844

BS.RPT_OUT;1

File: _\$6\$DRB5:[BASKIN.TEST.CUT.NOPRELOAD_B]BS.RPT_OUT;1
Last Modified: 11-NOV-1997 09:16
Owner UIC: [G42,BASKIN]

Length: 60 blocks
Longest record: 59 bytes
Priority: 100
Submit queue: SYS\$PRINT
Submitted: 11-NOV-1997 09:16
Printer queue: SYS\$PRINT
Printer device: POSTMO::

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\$_65DRB5:[BASKIN.TEST.CUT.NOPRELOAD_B]BS.RPT_OUT;1 11-NOV-1997 09:16 Page 1

```
OUTPUT BOLT COUNT : 00
Time : 0.010 S33 MAX ksi: 15.26 Avg. ksi: 12.74
Time : 0.020 S33 MAX ksi: 15.09 Avg. ksi: 12.67
Time : 0.024 S33 MAX ksi: 28.27 Avg. ksi: 15.60
Time : 0.028 S33 MAX ksi: 43.98 Avg. ksi: 22.26
Time : 0.032 S33 MAX ksi: 44.53 Avg. ksi: 26.43
Time : 0.036 S33 MAX ksi: 56.43 Avg. ksi: 32.68
Time : 0.040 S33 MAX ksi: 62.87 Avg. ksi: 37.66
Time : 0.042 S33 MAX ksi: 67.97 Avg. ksi: 40.88
Time : 0.044 S33 MAX ksi: 76.00 Avg. ksi: 44.40
Time : 0.046 S33 MAX ksi: 80.04 Avg. ksi: 46.82
Time : 0.048 S33 MAX ksi: 82.17 Avg. ksi: 49.29
Time : 0.050 S33 MAX ksi: 84.99 Avg. ksi: 52.55
Time : 0.052 S33 MAX ksi: 88.25 Avg. ksi: 55.65
Time : 0.054 S33 MAX ksi: 86.75 Avg. ksi: 58.72
Time : 0.056 S33 MAX ksi: 89.13 Avg. ksi: 62.29
Time : 0.058 S33 MAX ksi: 89.93 Avg. ksi: 65.05
Time : 0.060 S33 MAX ksi: 91.03 Avg. ksi: 67.38
Time : 0.062 S33 MAX ksi: 90.38 Avg. ksi: 68.68
Time : 0.064 S33 MAX ksi: 91.84 Avg. ksi: 72.92
Time : 0.066 S33 MAX ksi: 93.94 Avg. ksi: 74.96
Time : 0.068 S33 MAX ksi: 95.88 Avg. ksi: 76.85
Time : 0.070 S33 MAX ksi: 95.27 Avg. ksi: 78.51
Time : 0.072 S33 MAX ksi: 101.24 Avg. ksi: 80.91
Time : 0.074 S33 MAX ksi: 108.55 Avg. ksi: 80.11
Time : 0.076 S33 MAX ksi: 115.52 Avg. ksi: 82.31
Time : 0.078 S33 MAX ksi: 120.99 Avg. ksi: 78.08
Time : 0.080 S33 MAX ksi: 120.14 Avg. ksi: 42.72
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: 42.53 Avg. ksi: 26.62
Time : 0.036 S33 MAX ksi: 58.56 Avg. ksi: 33.92
Time : 0.040 S33 MAX ksi: 64.55 Avg. ksi: 38.17
Time : 0.042 S33 MAX ksi: 70.10 Avg. ksi: 41.73
Time : 0.044 S33 MAX ksi: 76.63 Avg. ksi: 44.84
Time : 0.046 S33 MAX ksi: 79.92 Avg. ksi: 47.87
Time : 0.048 S33 MAX ksi: 82.96 Avg. ksi: 50.76
Time : 0.050 S33 MAX ksi: 85.08 Avg. ksi: 53.71
Time : 0.052 S33 MAX ksi: 88.07 Avg. ksi: 56.27
Time : 0.054 S33 MAX ksi: 86.73 Avg. ksi: 60.07
Time : 0.056 S33 MAX ksi: 89.29 Avg. ksi: 63.51
Time : 0.058 S33 MAX ksi: 89.75 Avg. ksi: 65.51
Time : 0.060 S33 MAX ksi: 91.50 Avg. ksi: 66.71
Time : 0.062 S33 MAX ksi: 92.72 Avg. ksi: 68.51
Time : 0.064 S33 MAX ksi: 92.60 Avg. ksi: 71.95
Time : 0.066 S33 MAX ksi: 92.67 Avg. ksi: 75.19
Time : 0.068 S33 MAX ksi: 92.00 Avg. ksi: 77.39
Time : 0.070 S33 MAX ksi: 94.56 Avg. ksi: 78.89
Time : 0.072 S33 MAX ksi: 97.91 Avg. ksi: 77.72
Time : 0.074 S33 MAX ksi: 105.16 Avg. ksi: 80.14
Time : 0.076 S33 MAX ksi: 101.54 Avg. ksi: 83.87
Time : 0.078 S33 MAX ksi: 99.27 Avg. ksi: 69.64
Time : 0.080 S33 MAX ksi: 103.17 Avg. ksi: 46.38
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: 37.99 Avg. ksi: 23.85
Time : 0.032 S33 MAX ksi: 47.19 Avg. ksi: 27.61
Time : 0.036 S33 MAX ksi: 60.41 Avg. ksi: 35.27
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\$_65DRB5:[BASKIN.TEST.CUT.NOPRELOAD_B]BS.RPT_OUT;1 11-NOV-1997 09:16 Page 2

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Time : 0.040 S33 MAX ksi: 69.93 Avg. ksi: 40.98
Time : 0.042 S33 MAX ksi: 77.40 Avg. ksi: 44.42
Time : 0.044 S33 MAX ksi: 83.95 Avg. ksi: 48.10
Time : 0.046 S33 MAX ksi: 84.83 Avg. ksi: 50.70
Time : 0.048 S33 MAX ksi: 85.15 Avg. ksi: 53.34
Time : 0.050 S33 MAX ksi: 87.62 Avg. ksi: 55.57
Time : 0.052 S33 MAX ksi: 90.47 Avg. ksi: 58.47
Time : 0.054 S33 MAX ksi: 89.45 Avg. ksi: 61.19
Time : 0.056 S33 MAX ksi: 91.29 Avg. ksi: 65.07
Time : 0.058 S33 MAX ksi: 91.96 Avg. ksi: 67.68
Time : 0.060 S33 MAX ksi: 92.76 Avg. ksi: 69.38
Time : 0.062 S33 MAX ksi: 93.11 Avg. ksi: 71.85
Time : 0.064 S33 MAX ksi: 94.78 Avg. ksi: 73.92
Time : 0.066 S33 MAX ksi: 95.78 Avg. ksi: 75.91
Time : 0.068 S33 MAX ksi: 95.85 Avg. ksi: 77.91
Time : 0.070 S33 MAX ksi: 98.52 Avg. ksi: 79.78
Time : 0.072 S33 MAX ksi: 99.39 Avg. ksi: 79.51
Time : 0.074 S33 MAX ksi: 105.43 Avg. ksi: 80.21
Time : 0.076 S33 MAX ksi: 110.25 Avg. ksi: 84.26
Time : 0.078 S33 MAX ksi: 118.57 Avg. ksi: 78.70
Time : 0.080 S33 MAX ksi: 118.92 Avg. ksi: 53.32
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: 13.44
Time : 0.024 S33 MAX ksi: 22.90 Avg. ksi: 15.45
Time : 0.028 S33 MAX ksi: 28.56 Avg. ksi: 21.97
Time : 0.032 S33 MAX ksi: 33.98 Avg. ksi: 24.69
Time : 0.036 S33 MAX ksi: 40.23 Avg. ksi: 29.96
Time : 0.040 S33 MAX ksi: 53.12 Avg. ksi: 33.57
Time : 0.042 S33 MAX ksi: 46.88 Avg. ksi: 36.99
Time : 0.044 S33 MAX ksi: 53.17 Avg. ksi: 39.88
Time : 0.046 S33 MAX ksi: 58.25 Avg. ksi: 42.31
Time : 0.048 S33 MAX ksi: 67.90 Avg. ksi: 43.94
Time : 0.050 S33 MAX ksi: 64.31 Avg. ksi: 46.42
Time : 0.052 S33 MAX ksi: 63.92 Avg. ksi: 49.09
Time : 0.054 S33 MAX ksi: 69.79 Avg. ksi: 53.28
Time : 0.056 S33 MAX ksi: 81.38 Avg. ksi: 57.77
Time : 0.058 S33 MAX ksi: 81.92 Avg. ksi: 60.94
Time : 0.060 S33 MAX ksi: 83.33 Avg. ksi: 64.01
Time : 0.062 S33 MAX ksi: 82.33 Avg. ksi: 66.89
Time : 0.064 S33 MAX ksi: 82.51 Avg. ksi: 71.86
Time : 0.066 S33 MAX ksi: 86.24 Avg. ksi: 73.85
Time : 0.068 S33 MAX ksi: 90.62 Avg. ksi: 74.20
Time : 0.070 S33 MAX ksi: 91.34 Avg. ksi: 76.45
Time : 0.072 S33 MAX ksi: 90.73 Avg. ksi: 75.47
Time : 0.074 S33 MAX ksi: 85.22 Avg. ksi: 74.37
Time : 0.076 S33 MAX ksi: 97.84 Avg. ksi: 77.84
Time : 0.078 S33 MAX ksi: 93.57 Avg. ksi: 67.99
Time : 0.080 S33 MAX ksi: 30.30 Avg. ksi: 13.43
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: 40.36 Avg. ksi: 0.00
Time : 0.036 S33 MAX ksi: 58.24 Avg. ksi: 0.00
Time : 0.040 S33 MAX ksi: 68.59 Avg. ksi: 0.00
Time : 0.042 S33 MAX ksi: 76.42 Avg. ksi: 0.00
Time : 0.044 S33 MAX ksi: 84.37 Avg. ksi: 0.00
Time : 0.046 S33 MAX ksi: 90.49 Avg. ksi: 0.00
Time : 0.048 S33 MAX ksi: 100.19 Avg. ksi: 0.53
Time : 0.050 S33 MAX ksi: 106.09 Avg. ksi: 0.00
Time : 0.052 S33 MAX ksi: 117.79 Avg. ksi: 0.44
Time : 0.054 S33 MAX ksi: 121.10 Avg. ksi: 1.68
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\$_65DRB5:[BASKIN.TEST.CUT.NOPRELOAD_B]BS.RPT_OUT;1 11-NOV-1997 09:16 Page 3

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Time : 0.056 S33 MAX ksi: 129.00 Avg. ksi: 4.59
Time : 0.058 S33 MAX ksi: 134.19 Avg. ksi: 5.75
Time : 0.060 S33 MAX ksi: 141.00 Avg. ksi: 9.16
Time : 0.062 S33 MAX ksi: 145.67 Avg. ksi: 12.27
Time : 0.064 S33 MAX ksi: 151.04 Avg. ksi: 16.67
Time : 0.066 S33 MAX ksi: 159.56 Avg. ksi: 21.06
Time : 0.068 S33 MAX ksi: 169.00 Avg. ksi: 26.62
Time : 0.070 S33 MAX ksi: 179.16 Avg. ksi: 32.46
Time : 0.072 S33 MAX ksi: 169.61 Avg. ksi: 43.13
Time : 0.074 S33 MAX ksi: 120.77 Avg. ksi: 42.23
Time : 0.076 S33 MAX ksi: 11.53 Avg. ksi: 1.69
Time : 0.078 S33 MAX ksi: 16.95 Avg. ksi: 1.07
Time : 0.080 S33 MAX ksi: 19.47 Avg. ksi: 1.62
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: 63.07 Avg. ksi: 0.00
Time : 0.036 S33 MAX ksi: 86.99 Avg. ksi: 0.00
Time : 0.040 S33 MAX ksi: 105.43 Avg. ksi: 0.00
Time : 0.042 S33 MAX ksi: 116.22 Avg. ksi: 0.00
Time : 0.044 S33 MAX ksi: 120.88 Avg. ksi: 0.00
Time : 0.046 S33 MAX ksi: 123.05 Avg. ksi: 0.00
Time : 0.048 S33 MAX ksi: 125.79 Avg. ksi: 0.28
Time : 0.050 S33 MAX ksi: 125.94 Avg. ksi: 0.00
Time : 0.052 S33 MAX ksi: 129.21 Avg. ksi: 0.49
Time : 0.054 S33 MAX ksi: 131.45 Avg. ksi: 1.09
Time : 0.056 S33 MAX ksi: 136.32 Avg. ksi: 2.46
Time : 0.058 S33 MAX ksi: 140.35 Avg. ksi: 4.16
Time : 0.060 S33 MAX ksi: 144.54 Avg. ksi: 5.13
Time : 0.062 S33 MAX ksi: 150.47 Avg. ksi: 9.19
Time : 0.064 S33 MAX ksi: 156.89 Avg. ksi: 10.67
Time : 0.066 S33 MAX ksi: 165.73 Avg. ksi: 15.31
Time : 0.068 S33 MAX ksi: 169.25 Avg. ksi: 21.80
Time : 0.070 S33 MAX ksi: 152.04 Avg. ksi: 27.34
Time : 0.072 S33 MAX ksi: 19.45 Avg. ksi: 0.00
Time : 0.074 S33 MAX ksi: 29.89 Avg. ksi: 4.02
Time : 0.076 S33 MAX ksi: 37.77 Avg. ksi: 4.99
Time : 0.078 S33 MAX ksi: 38.63 Avg. ksi: 5.14
Time : 0.080 S33 MAX ksi: 37.23 Avg. ksi: 5.18
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: 51.93 Avg. ksi: 0.00
Time : 0.032 S33 MAX ksi: 71.32 Avg. ksi: 0.00
Time : 0.036 S33 MAX ksi: 101.24 Avg. ksi: 0.00
Time : 0.040 S33 MAX ksi: 116.48 Avg. ksi: 0.00
Time : 0.042 S33 MAX ksi: 118.67 Avg. ksi: 0.00
Time : 0.044 S33 MAX ksi: 120.24 Avg. ksi: 0.00
Time : 0.046 S33 MAX ksi: 121.68 Avg. ksi: 0.00
Time : 0.048 S33 MAX ksi: 124.94 Avg. ksi: 0.00
Time : 0.050 S33 MAX ksi: 125.24 Avg. ksi: 0.00
Time : 0.052 S33 MAX ksi: 128.21 Avg. ksi: 0.00
Time : 0.054 S33 MAX ksi: 131.62 Avg. ksi: 0.00
Time : 0.056 S33 MAX ksi: 136.95 Avg. ksi: 0.05
Time : 0.058 S33 MAX ksi: 140.79 Avg. ksi: 1.21
Time : 0.060 S33 MAX ksi: 146.25 Avg. ksi: 2.92
Time : 0.062 S33 MAX ksi: 152.59 Avg. ksi: 6.30
Time : 0.064 S33 MAX ksi: 159.33 Avg. ksi: 8.56
Time : 0.066 S33 MAX ksi: 158.99 Avg. ksi: 12.89
Time : 0.068 S33 MAX ksi: 152.88 Avg. ksi: 16.63
Time : 0.070 S33 MAX ksi: 95.10 Avg. ksi: 12.89
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\$_65DRB5:[BASKIN.TEST.CUT.NOPRELOAD_B]BS.RPT_OUT;1 11-NOV-1997 09:16 Page 4

```
Time : 0.072 S33 MAX ksi: 23.15 Avg. ksi: 2.84
Time : 0.074 S33 MAX ksi: 31.56 Avg. ksi: 3.96
Time : 0.076 S33 MAX ksi: 39.74 Avg. ksi: 7.12
Time : 0.078 S33 MAX ksi: 44.24 Avg. ksi: 6.54
Time : 0.080 S33 MAX ksi: 47.35 Avg. ksi: 7.82
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: 6.20 Avg. ksi: 0.00
Time : 0.036 S33 MAX ksi: 10.52 Avg. ksi: 0.00
Time : 0.040 S33 MAX ksi: 11.57 Avg. ksi: 0.00
Time : 0.042 S33 MAX ksi: 14.77 Avg. ksi: 0.00
Time : 0.044 S33 MAX ksi: 15.64 Avg. ksi: 0.00
Time : 0.046 S33 MAX ksi: 19.58 Avg. ksi: 0.00
Time : 0.048 S33 MAX ksi: 19.25 Avg. ksi: 0.00
Time : 0.050 S33 MAX ksi: 22.31 Avg. ksi: 0.00
Time : 0.052 S33 MAX ksi: 24.84 Avg. ksi: 0.00
Time : 0.054 S33 MAX ksi: 28.95 Avg. ksi: 0.00
Time : 0.056 S33 MAX ksi: 32.26 Avg. ksi: 0.00
Time : 0.058 S33 MAX ksi: 35.83 Avg. ksi: 0.00
Time : 0.060 S33 MAX ksi: 42.47 Avg. ksi: 0.00
Time : 0.062 S33 MAX ksi: 48.45 Avg. ksi: 1.98
Time : 0.064 S33 MAX ksi: 52.80 Avg. ksi: 2.15
Time : 0.066 S33 MAX ksi: 59.51 Avg. ksi: 2.97
Time : 0.068 S33 MAX ksi: 65.50 Avg. ksi: 2.54
Time : 0.070 S33 MAX ksi: 66.12 Avg. ksi: 0.00
Time : 0.072 S33 MAX ksi: 80.68 Avg. ksi: 3.37
Time : 0.074 S33 MAX ksi: 99.95 Avg. ksi: 6.82
Time : 0.076 S33 MAX ksi: 106.75 Avg. ksi: 9.15
Time : 0.078 S33 MAX ksi: 150.26 Avg. ksi: 6.95
Time : 0.080 S33 MAX ksi: 127.74 Avg. ksi: 0.87
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: 24.61 Avg. ksi: 0.00
Time : 0.036 S33 MAX ksi: 39.21 Avg. ksi: 0.00
Time : 0.040 S33 MAX ksi: 50.09 Avg. ksi: 0.00
Time : 0.042 S33 MAX ksi: 55.46 Avg. ksi: 0.00
Time : 0.044 S33 MAX ksi: 61.76 Avg. ksi: 0.00
Time : 0.046 S33 MAX ksi: 68.73 Avg. ksi: 0.00
Time : 0.048 S33 MAX ksi: 71.91 Avg. ksi: 0.00
Time : 0.050 S33 MAX ksi: 81.03 Avg. ksi: 0.00
Time : 0.052 S33 MAX ksi: 87.88 Avg. ksi: 0.00
Time : 0.054 S33 MAX ksi: 102.84 Avg. ksi: 0.00
Time : 0.056 S33 MAX ksi: 117.66 Avg. ksi: 0.00
Time : 0.058 S33 MAX ksi: 121.33 Avg. ksi: 0.00
Time : 0.060 S33 MAX ksi: 124.37 Avg. ksi: 0.00
Time : 0.062 S33 MAX ksi: 132.33 Avg. ksi: 0.00
Time : 0.064 S33 MAX ksi: 136.18 Avg. ksi: 0.00
Time : 0.066 S33 MAX ksi: 142.43 Avg. ksi: 0.00
Time : 0.068 S33 MAX ksi: 147.54 Avg. ksi: 2.98
Time : 0.070 S33 MAX ksi: 149.08 Avg. ksi: 4.18
Time : 0.072 S33 MAX ksi: 158.31 Avg. ksi: 10.86
Time : 0.074 S33 MAX ksi: 133.44 Avg. ksi: 24.35
Time : 0.076 S33 MAX ksi: 21.62 Avg. ksi: 1.25
Time : 0.078 S33 MAX ksi: 34.04 Avg. ksi: 5.32
Time : 0.080 S33 MAX ksi: 36.97 Avg. ksi: 6.63
OUTPUT BOLT COUNT : 10
Time : 0.010 S33 MAX ksi: 1.23 Avg. ksi: 0.09
Time : 0.020 S33 MAX ksi: 1.16 Avg. ksi: 0.09
```

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_S65DRB5:[BASKIN.TEST.CUT.NOPRELOAD_B]BS.RPT_OUT:1 11-NOV-1997 09:16 Page 5

Time:	0.024	S33 MAX ksi:	13.06	Avg. ksi:	0.08
Time:	0.028	S33 MAX ksi:	35.04	Avg. ksi:	0.19
Time:	0.032	S33 MAX ksi:	47.12	Avg. ksi:	0.43
Time:	0.036	S33 MAX ksi:	68.90	Avg. ksi:	0.00
Time:	0.040	S33 MAX ksi:	85.50	Avg. ksi:	0.00
Time:	0.042	S33 MAX ksi:	94.78	Avg. ksi:	0.07
Time:	0.044	S33 MAX ksi:	104.14	Avg. ksi:	0.00
Time:	0.046	S33 MAX ksi:	114.74	Avg. ksi:	0.00
Time:	0.048	S33 MAX ksi:	120.30	Avg. ksi:	0.24
Time:	0.050	S33 MAX ksi:	123.61	Avg. ksi:	0.00
Time:	0.052	S33 MAX ksi:	125.84	Avg. ksi:	0.00
Time:	0.054	S33 MAX ksi:	129.47	Avg. ksi:	0.00
Time:	0.056	S33 MAX ksi:	132.40	Avg. ksi:	0.00
Time:	0.058	S33 MAX ksi:	135.64	Avg. ksi:	0.00
Time:	0.060	S33 MAX ksi:	138.84	Avg. ksi:	0.00
Time:	0.062	S33 MAX ksi:	143.54	Avg. ksi:	1.84
Time:	0.064	S33 MAX ksi:	145.79	Avg. ksi:	2.39
Time:	0.066	S33 MAX ksi:	151.01	Avg. ksi:	3.83
Time:	0.068	S33 MAX ksi:	156.14	Avg. ksi:	5.95
Time:	0.070	S33 MAX ksi:	159.66	Avg. ksi:	10.86
Time:	0.072	S33 MAX ksi:	157.47	Avg. ksi:	13.94
Time:	0.074	S33 MAX ksi:	157.90	Avg. ksi:	9.09
Time:	0.076	S33 MAX ksi:	40.93	Avg. ksi:	7.95
Time:	0.078	S33 MAX ksi:	43.40	Avg. ksi:	9.88
Time:	0.080	S33 MAX ksi:	41.53	Avg. ksi:	10.11
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:	57.81	Avg. ksi:	0.00
Time:	0.036	S33 MAX ksi:	83.14	Avg. ksi:	0.00
Time:	0.040	S33 MAX ksi:	104.37	Avg. ksi:	0.00
Time:	0.042	S33 MAX ksi:	113.75	Avg. ksi:	0.00
Time:	0.044	S33 MAX ksi:	120.46	Avg. ksi:	0.00
Time:	0.046	S33 MAX ksi:	120.77	Avg. ksi:	0.00
Time:	0.048	S33 MAX ksi:	120.73	Avg. ksi:	0.00
Time:	0.050	S33 MAX ksi:	121.38	Avg. ksi:	0.00
Time:	0.052	S33 MAX ksi:	121.77	Avg. ksi:	0.00
Time:	0.054	S33 MAX ksi:	125.45	Avg. ksi:	0.00
Time:	0.056	S33 MAX ksi:	129.27	Avg. ksi:	0.00
Time:	0.058	S33 MAX ksi:	131.60	Avg. ksi:	0.00
Time:	0.060	S33 MAX ksi:	135.08	Avg. ksi:	0.00
Time:	0.062	S33 MAX ksi:	141.59	Avg. ksi:	0.00
Time:	0.064	S33 MAX ksi:	149.19	Avg. ksi:	0.00
Time:	0.066	S33 MAX ksi:	157.41	Avg. ksi:	0.00
Time:	0.068	S33 MAX ksi:	163.09	Avg. ksi:	0.00
Time:	0.070	S33 MAX ksi:	160.21	Avg. ksi:	0.00
Time:	0.072	S33 MAX ksi:	85.53	Avg. ksi:	0.00
Time:	0.074	S33 MAX ksi:	31.21	Avg. ksi:	3.57
Time:	0.076	S33 MAX ksi:	51.77	Avg. ksi:	9.90
Time:	0.078	S33 MAX ksi:	51.83	Avg. ksi:	12.55
Time:	0.080	S33 MAX ksi:	54.33	Avg. ksi:	13.74
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:	8.95	Avg. ksi:	0.00
Time:	0.036	S33 MAX ksi:	15.21	Avg. ksi:	0.00
Time:	0.040	S33 MAX ksi:	18.60	Avg. ksi:	0.00
Time:	0.042	S33 MAX ksi:	22.37	Avg. ksi:	0.00
Time:	0.044	S33 MAX ksi:	21.43	Avg. ksi:	0.00
Time:	0.046	S33 MAX ksi:	26.74	Avg. ksi:	0.00

_S65DRB5:[BASKIN.TEST.CUT.NOPRELOAD_B]BS.RPT_OUT:1 11-NOV-1997 09:16 Page 6

Time:	0.048	S33 MAX ksi:	27.58	Avg. ksi:	0.00
Time:	0.050	S33 MAX ksi:	31.41	Avg. ksi:	0.00
Time:	0.052	S33 MAX ksi:	34.22	Avg. ksi:	0.00
Time:	0.054	S33 MAX ksi:	41.27	Avg. ksi:	0.00
Time:	0.056	S33 MAX ksi:	49.27	Avg. ksi:	0.00
Time:	0.058	S33 MAX ksi:	55.44	Avg. ksi:	0.00
Time:	0.060	S33 MAX ksi:	65.28	Avg. ksi:	0.00
Time:	0.062	S33 MAX ksi:	72.80	Avg. ksi:	0.00
Time:	0.064	S33 MAX ksi:	86.44	Avg. ksi:	0.51
Time:	0.066	S33 MAX ksi:	97.00	Avg. ksi:	3.16
Time:	0.068	S33 MAX ksi:	107.66	Avg. ksi:	5.54
Time:	0.070	S33 MAX ksi:	118.88	Avg. ksi:	9.64
Time:	0.072	S33 MAX ksi:	127.27	Avg. ksi:	0.00
Time:	0.074	S33 MAX ksi:	135.97	Avg. ksi:	1.71
Time:	0.076	S33 MAX ksi:	153.98	Avg. ksi:	10.96
Time:	0.078	S33 MAX ksi:	165.26	Avg. ksi:	21.51
Time:	0.080	S33 MAX ksi:	173.92	Avg. ksi:	31.67
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:	33.48	Avg. ksi:	0.00
Time:	0.036	S33 MAX ksi:	48.51	Avg. ksi:	0.00
Time:	0.040	S33 MAX ksi:	59.58	Avg. ksi:	0.00
Time:	0.042	S33 MAX ksi:	67.87	Avg. ksi:	0.00
Time:	0.044	S33 MAX ksi:	76.45	Avg. ksi:	0.00
Time:	0.046	S33 MAX ksi:	84.03	Avg. ksi:	0.00
Time:	0.048	S33 MAX ksi:	88.93	Avg. ksi:	0.00
Time:	0.050	S33 MAX ksi:	98.58	Avg. ksi:	0.00
Time:	0.052	S33 MAX ksi:	106.46	Avg. ksi:	0.00
Time:	0.054	S33 MAX ksi:	120.63	Avg. ksi:	0.00
Time:	0.056	S33 MAX ksi:	128.78	Avg. ksi:	0.00
Time:	0.058	S33 MAX ksi:	134.44	Avg. ksi:	0.00
Time:	0.060	S33 MAX ksi:	140.42	Avg. ksi:	0.00
Time:	0.062	S33 MAX ksi:	142.60	Avg. ksi:	0.00
Time:	0.064	S33 MAX ksi:	150.69	Avg. ksi:	0.00
Time:	0.066	S33 MAX ksi:	155.86	Avg. ksi:	2.24
Time:	0.068	S33 MAX ksi:	163.20	Avg. ksi:	6.78
Time:	0.070	S33 MAX ksi:	170.40	Avg. ksi:	9.74
Time:	0.072	S33 MAX ksi:	172.36	Avg. ksi:	4.63
Time:	0.074	S33 MAX ksi:	155.85	Avg. ksi:	25.90
Time:	0.076	S33 MAX ksi:	17.77	Avg. ksi:	2.41
Time:	0.078	S33 MAX ksi:	26.61	Avg. ksi:	4.45
Time:	0.080	S33 MAX ksi:	24.72	Avg. ksi:	4.10
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:	0.36
Time:	0.028	S33 MAX ksi:	38.48	Avg. ksi:	0.00
Time:	0.032	S33 MAX ksi:	50.36	Avg. ksi:	0.00
Time:	0.036	S33 MAX ksi:	73.94	Avg. ksi:	0.00
Time:	0.040	S33 MAX ksi:	93.53	Avg. ksi:	0.00
Time:	0.042	S33 MAX ksi:	102.39	Avg. ksi:	0.00
Time:	0.044	S33 MAX ksi:	111.59	Avg. ksi:	0.00
Time:	0.046	S33 MAX ksi:	119.75	Avg. ksi:	0.00
Time:	0.048	S33 MAX ksi:	120.98	Avg. ksi:	0.00
Time:	0.050	S33 MAX ksi:	124.40	Avg. ksi:	0.00
Time:	0.052	S33 MAX ksi:	125.44	Avg. ksi:	0.00
Time:	0.054	S33 MAX ksi:	128.17	Avg. ksi:	0.00
Time:	0.056	S33 MAX ksi:	131.85	Avg. ksi:	0.00
Time:	0.058	S33 MAX ksi:	133.99	Avg. ksi:	0.00
Time:	0.060	S33 MAX ksi:	136.25	Avg. ksi:	0.00
Time:	0.062	S33 MAX ksi:	136.23	Avg. ksi:	0.00

_S65DRB5:[BASKIN.TEST.CUT.NOPRELOAD_B]BS.RPT_OUT:1 11-NOV-1997 09:16 Page 7

Time:	0.064	S33 MAX ksi:	143.12	Avg. ksi:	0.00
Time:	0.066	S33 MAX ksi:	148.79	Avg. ksi:	0.00
Time:	0.068	S33 MAX ksi:	151.49	Avg. ksi:	2.56
Time:	0.070	S33 MAX ksi:	146.99	Avg. ksi:	3.13
Time:	0.072	S33 MAX ksi:	84.06	Avg. ksi:	0.00
Time:	0.074	S33 MAX ksi:	21.79	Avg. ksi:	2.06
Time:	0.076	S33 MAX ksi:	45.20	Avg. ksi:	7.95
Time:	0.078	S33 MAX ksi:	50.71	Avg. ksi:	9.94
Time:	0.080	S33 MAX ksi:	45.15	Avg. ksi:	9.32
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:	55.61	Avg. ksi:	0.00
Time:	0.036	S33 MAX ksi:	86.07	Avg. ksi:	0.00
Time:	0.040	S33 MAX ksi:	104.15	Avg. ksi:	0.00
Time:	0.042	S33 MAX ksi:	111.99	Avg. ksi:	0.00
Time:	0.044	S33 MAX ksi:	113.25	Avg. ksi:	0.00
Time:	0.046	S33 MAX ksi:	113.23	Avg. ksi:	0.00
Time:	0.048	S33 MAX ksi:	115.73	Avg. ksi:	0.00
Time:	0.050	S33 MAX ksi:	117.39	Avg. ksi:	0.00
Time:	0.052	S33 MAX ksi:	121.39	Avg. ksi:	0.00
Time:	0.054	S33 MAX ksi:	122.48	Avg. ksi:	0.00
Time:	0.056	S33 MAX ksi:	127.70	Avg. ksi:	0.00
Time:	0.058	S33 MAX ksi:	133.61	Avg. ksi:	0.00
Time:	0.060	S33 MAX ksi:	139.84	Avg. ksi:	0.00
Time:	0.062	S33 MAX ksi:	143.42	Avg. ksi:	0.00
Time:	0.064	S33 MAX ksi:	143.20	Avg. ksi:	0.00
Time:	0.066	S33 MAX ksi:	148.90	Avg. ksi:	0.00
Time:	0.068	S33 MAX ksi:	143.68	Avg. ksi:	0.00
Time:	0.070	S33 MAX ksi:	146.60	Avg. ksi:	0.00
Time:	0.072	S33 MAX ksi:	62.80	Avg. ksi:	2.52
Time:	0.074	S33 MAX ksi:	34.51	Avg. ksi:	5.46
Time:	0.076	S33 MAX ksi:	39.34	Avg. ksi:	8.52
Time:	0.078	S33 MAX ksi:	43.99	Avg. ksi:	10.98
Time:	0.080	S33 MAX ksi:	47.50	Avg. ksi:	11.46
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:	3.62	Avg. ksi:	0.00
Time:	0.032	S33 MAX ksi:	4.01	Avg. ksi:	0.00
Time:	0.036	S33 MAX ksi:	7.66	Avg. ksi:	0.00
Time:	0.040	S33 MAX ksi:	8.72	Avg. ksi:	0.00
Time:	0.042	S33 MAX ksi:	10.65	Avg. ksi:	0.00
Time:	0.044	S33 MAX ksi:	11.26	Avg. ksi:	0.00
Time:	0.046	S33 MAX ksi:	9.36	Avg. ksi:	0.00
Time:	0.048	S33 MAX ksi:	15.32	Avg. ksi:	0.00
Time:	0.050	S33 MAX ksi:	18.19	Avg. ksi:	0.00
Time:	0.052	S33 MAX ksi:	23.16	Avg. ksi:	0.00
Time:	0.054	S33 MAX ksi:	26.38	Avg. ksi:	0.00
Time:	0.056	S33 MAX ksi:	31.45	Avg. ksi:	0.00
Time:	0.058	S33 MAX ksi:	40.24	Avg. ksi:	0.00
Time:	0.060	S33 MAX ksi:	45.29	Avg. ksi:	0.00
Time:	0.062	S33 MAX ksi:	55.69	Avg. ksi:	0.00
Time:	0.064	S33 MAX ksi:	65.51	Avg. ksi:	0.00
Time:	0.066	S33 MAX ksi:	75.19	Avg. ksi:	0.00
Time:	0.068	S33 MAX ksi:	84.40	Avg. ksi:	0.00
Time:	0.070	S33 MAX ksi:	89.77	Avg. ksi:	0.00
Time:	0.072	S33 MAX ksi:	94.83	Avg. ksi:	0.00
Time:	0.074	S33 MAX ksi:	131.88	Avg. ksi:	0.00
Time:	0.076	S33 MAX ksi:	154.14	Avg. ksi:	0.00
Time:	0.078	S33 MAX ksi:	168.78	Avg. ksi:	0.00

_S65DRB5:[BASKIN.TEST.CUT.NOPRELOAD_B]BS.RPT_OUT:1 11-NOV-1997 09:16 Page 8

Time:	0.080	S33 MAX ksi:	178.91	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:	7.31	Avg. ksi:	0.00
Time:	0.028	S33 MAX ksi:	20.64	Avg. ksi:	0.00
Time:	0.032	S33 MAX ksi:	28.81	Avg. ksi:	0.00
Time:	0.036	S33 MAX ksi:	43.00	Avg. ksi:	0.00
Time:	0.040	S33 MAX ksi:	52.31	Avg. ksi:	0.00
Time:	0.042	S33 MAX ksi:	60.68	Avg. ksi:	0.00
Time:	0.044	S33 MAX ksi:	65.86	Avg. ksi:	0.00
Time:	0.046	S33 MAX ksi:	71.30	Avg. ksi:	0.00
Time:	0.048	S33 MAX ksi:	81.36	Avg. ksi:	0.00
Time:	0.050	S33 MAX ksi:	88.92	Avg. ksi:	0.00
Time:	0.052	S33 MAX ksi:	100.31	Avg. ksi:	0.00
Time:	0.054	S33 MAX ksi:	112.28	Avg. ksi:	0.00
Time:	0.056	S33 MAX ksi:	115.55	Avg. ksi:	0.00
Time:	0.058	S33 MAX ksi:	117.13	Avg. ksi:	0.00
Time:	0.0				

STRESS::BASKIN

JOB 844

BP.RPT_OUT;1

File: _\$6\$DRB5:[BASKIN.TEST.CUT.NOPRELOAD_B]BP.RPT_OUT;1
Last Modified: 11-NOV-1997 09:16
Owner UIC: [G42,BASKIN]

Length: 57 blocks
Longest record: 56 bytes
Priority: 100
Submit queue: SYS\$PRINT
Submitted: 11-NOV-1997 09:16
Printer queue: SYS\$PRINT
Printer device: POSTMO::

Digital Equipment Corporation
OpenVMS AXP V6.2

PrintServer 20 POSTMO
DECprint Supervisor V1.2

Item H-08 : Table: Bolt Plastic Strain History

STRESS::BASKIN

JOB 847

BP_PLOT.PS;1

File: _\$6\$DRB5:[BASKIN.TEST.CUT.NOPRELOAD_B]BP_PLOT.PS;1
Last Modified: 11-NOV-1997 09:17
Owner UIC: [G42,BASKIN]

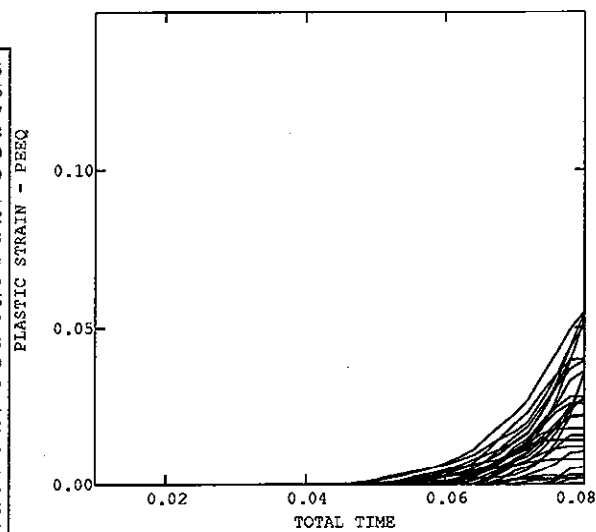
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Longest record: 95 bytes
Priority: 100
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Submitted: 11-NOV-1997 09:18
Printer queue: SYS\$PRINT
Printer device: POSTMO::

Digital Equipment Corporation
OpenVMS AXP V6.2

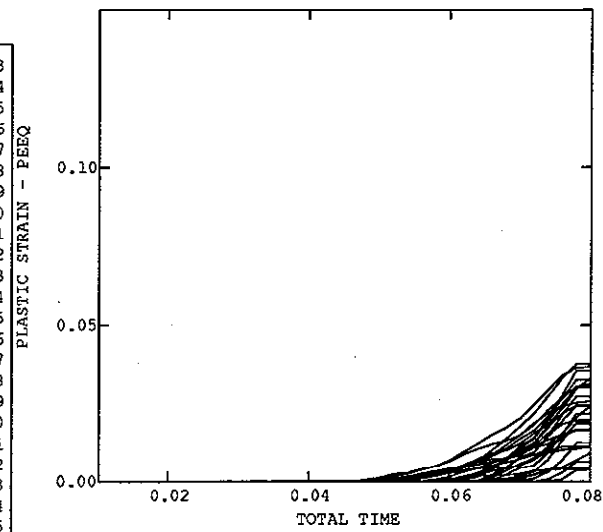
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DECprint Supervisor V1.2

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

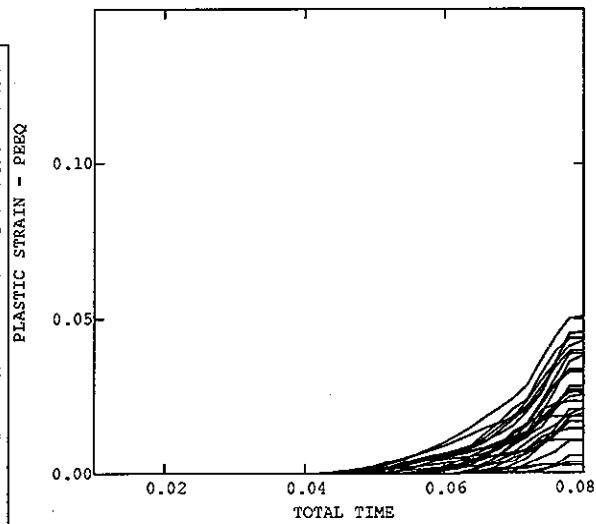
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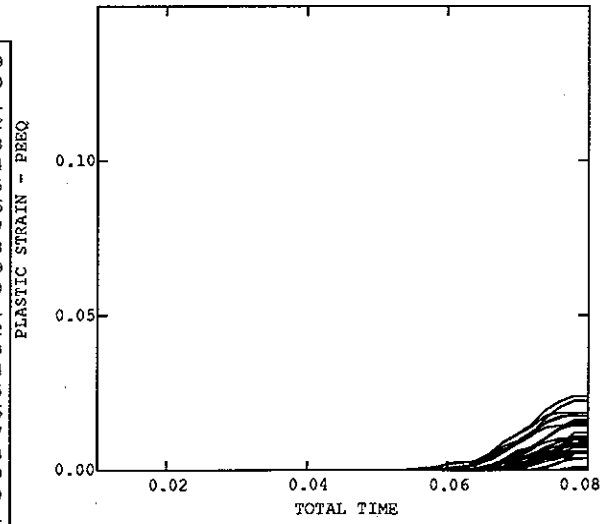
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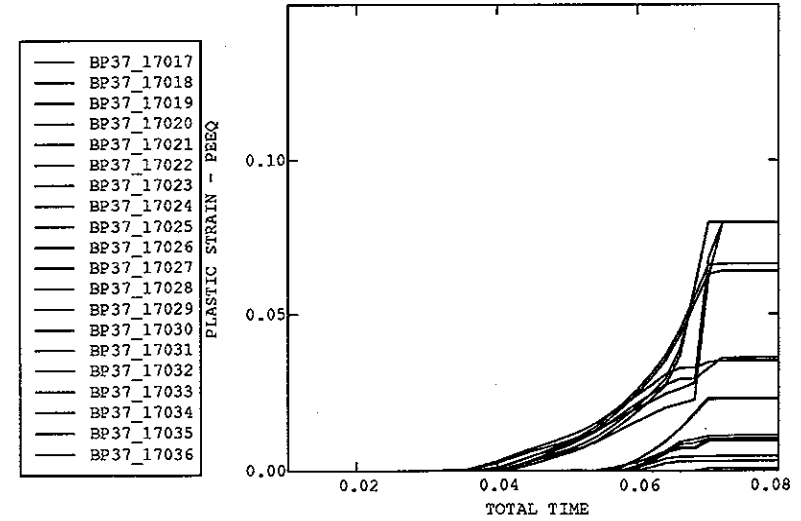
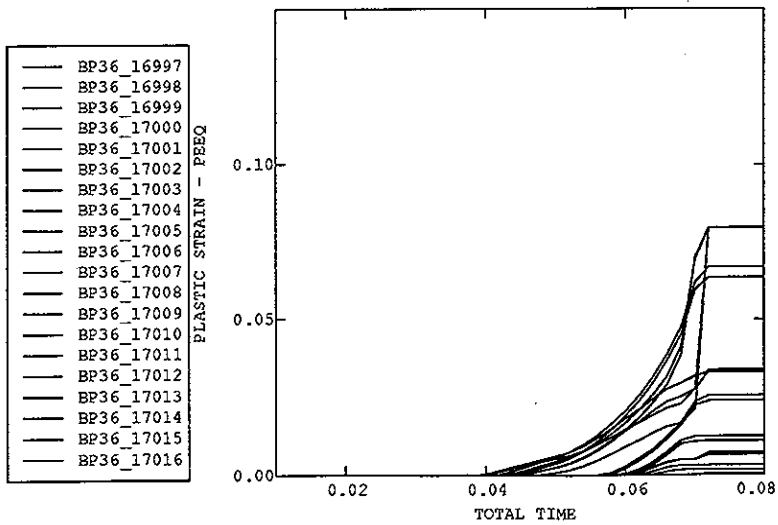
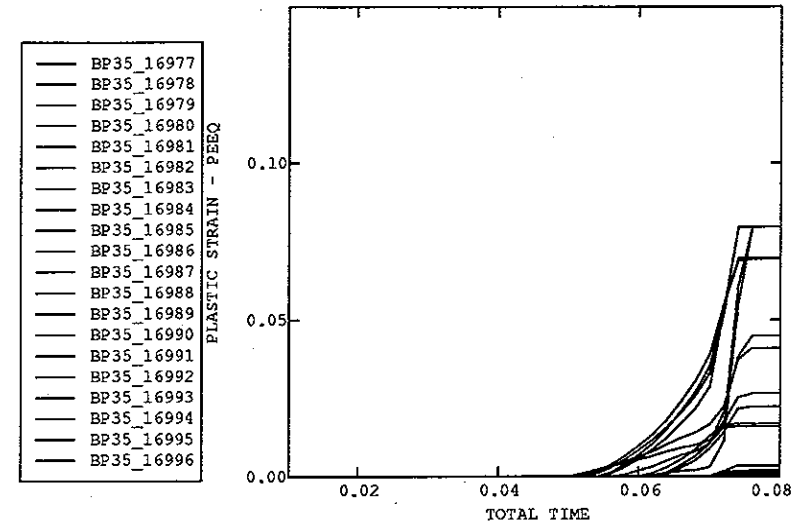
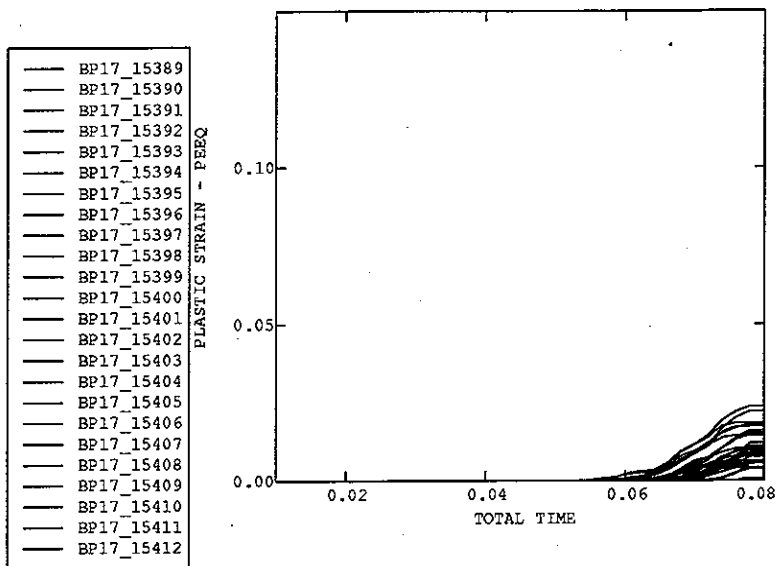


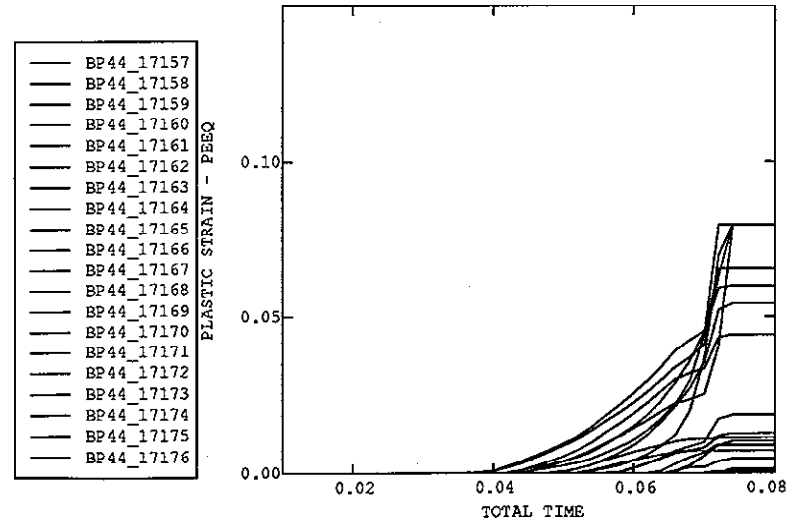
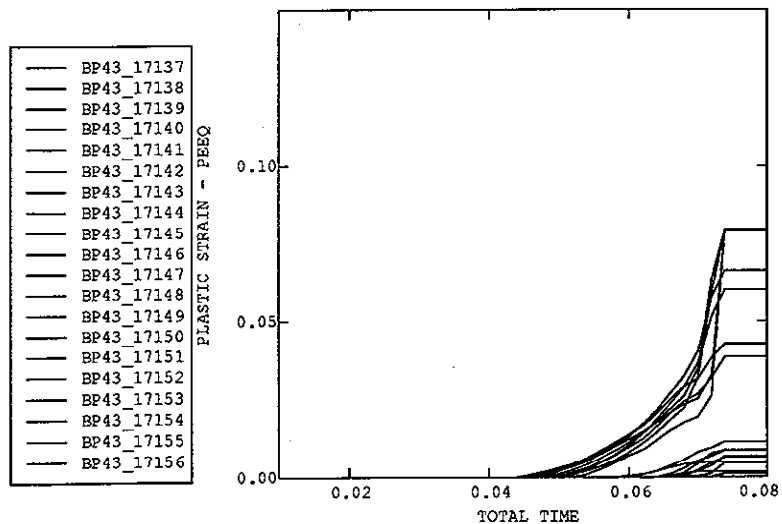
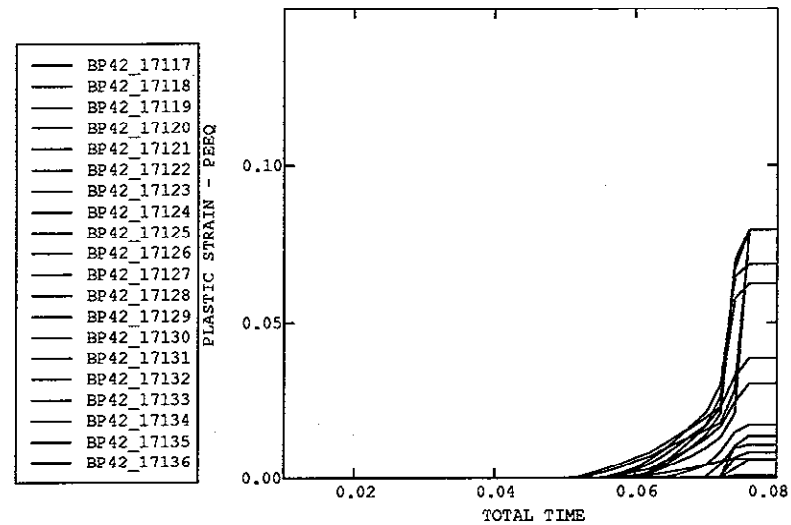
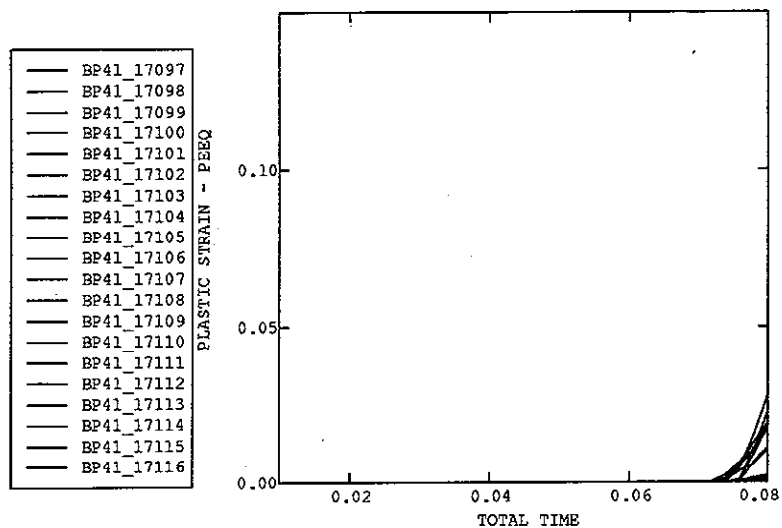
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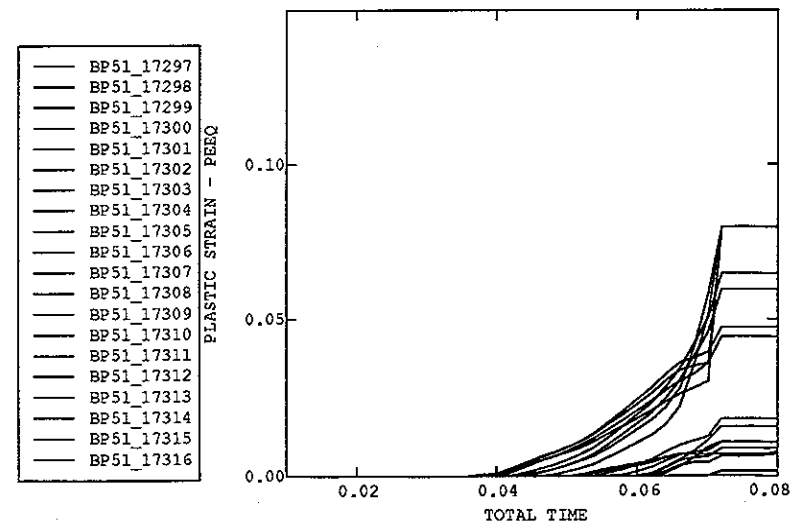
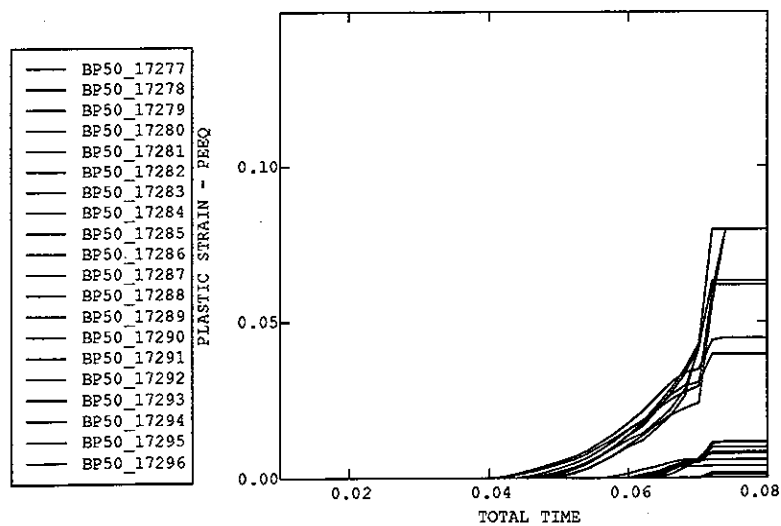
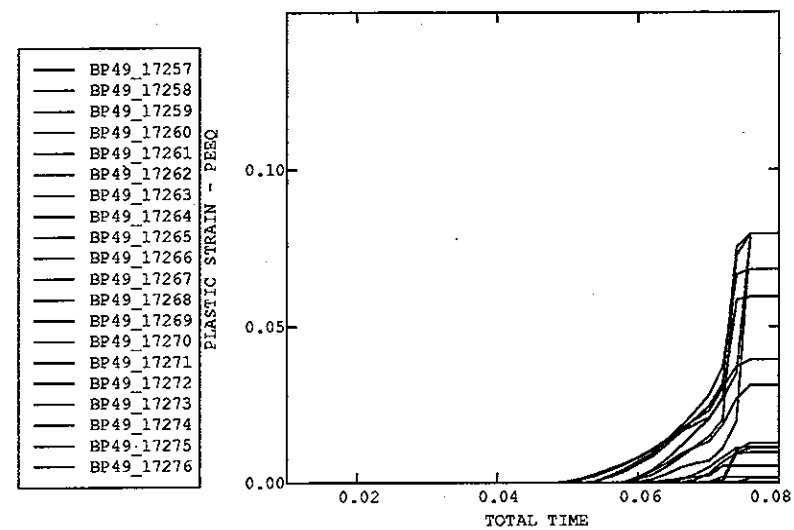
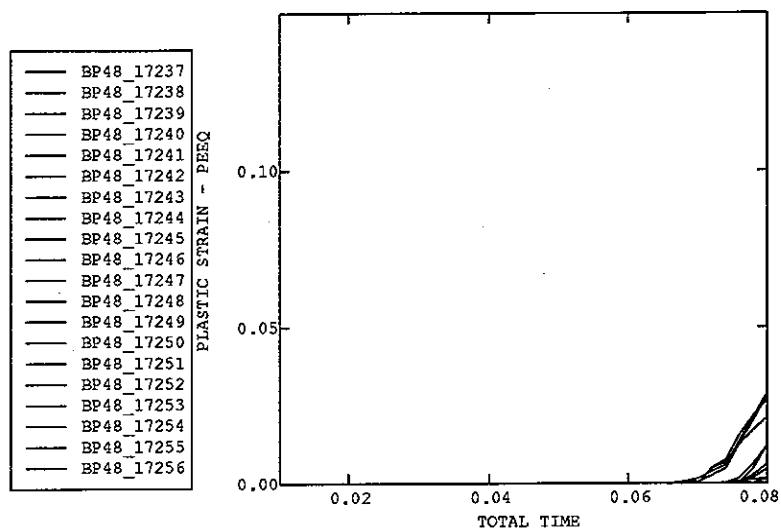
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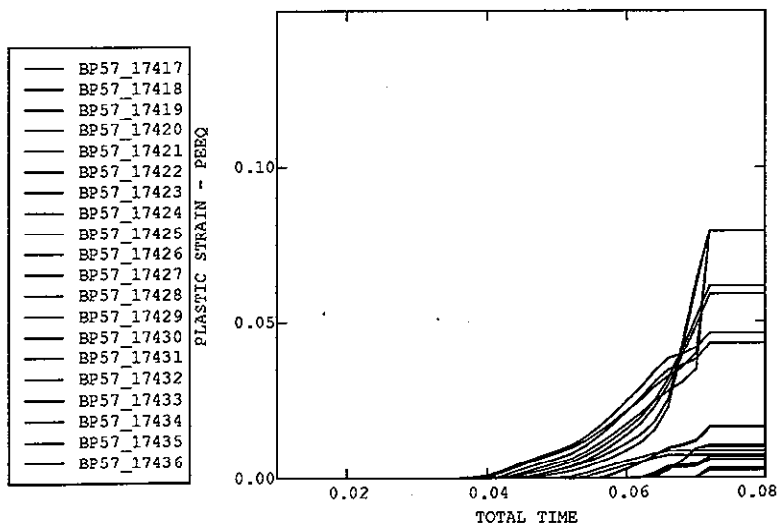
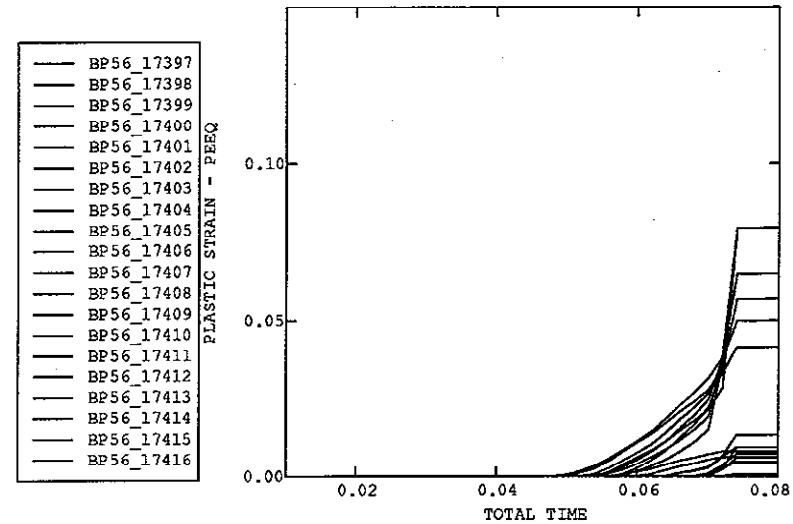
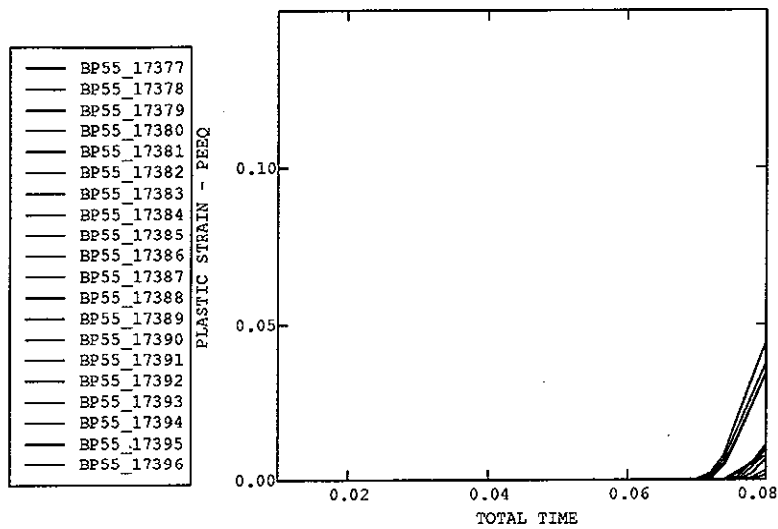


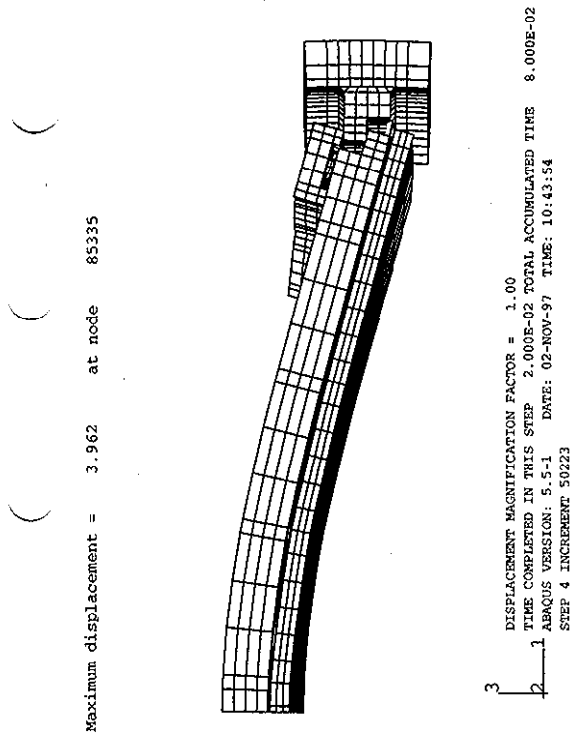
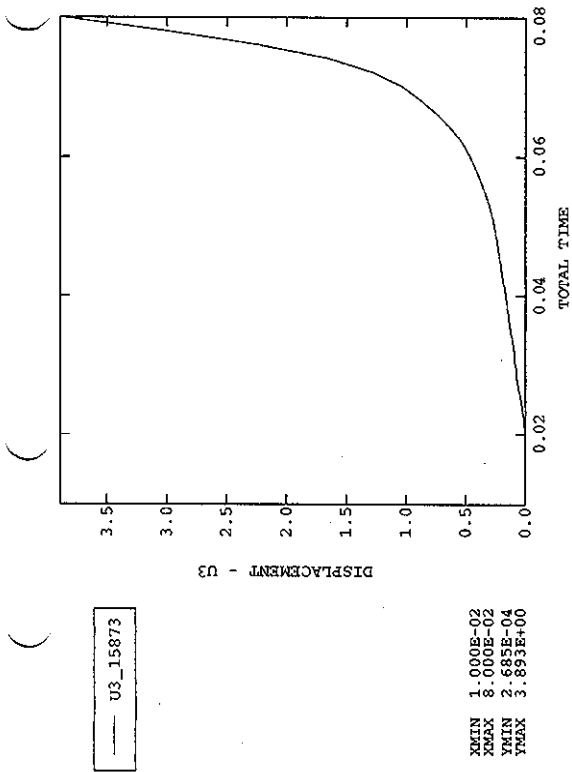




4-14



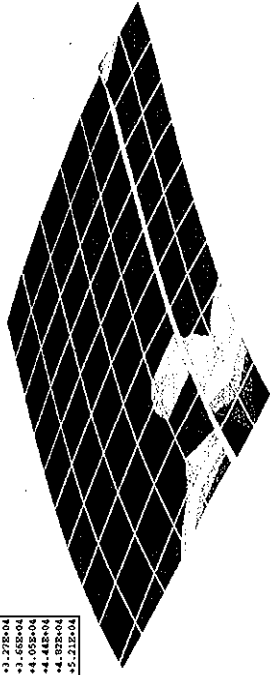
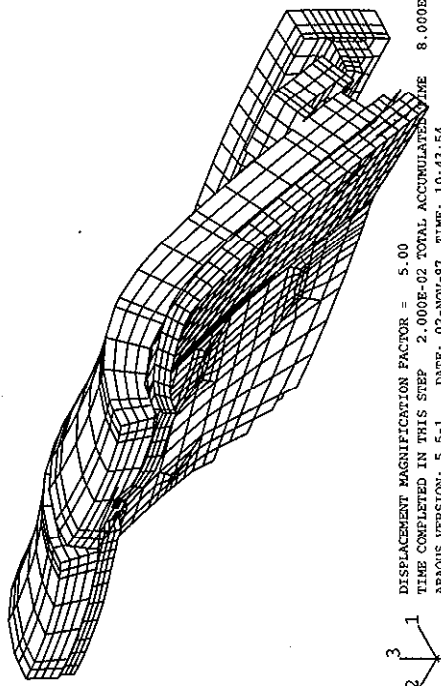




SECTION POINT 1	VALUE
MISES	-5.48E+03
	-9.75E+03
	-1.73E+04
	-2.10E+04
	-2.49E+04
	-2.88E+04
	-3.27E+04
	-3.66E+04
	-4.05E+04
	-4.44E+04
	-4.83E+04
	-5.21E+04

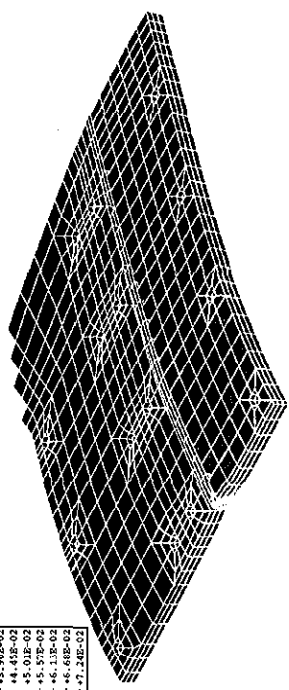
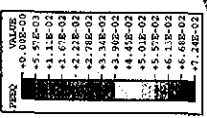
Maximum value = 5.2185E+04 at node 85337
Minimum value = 1589. at node 85464

Maximum displacement = 3.962 at node 85335



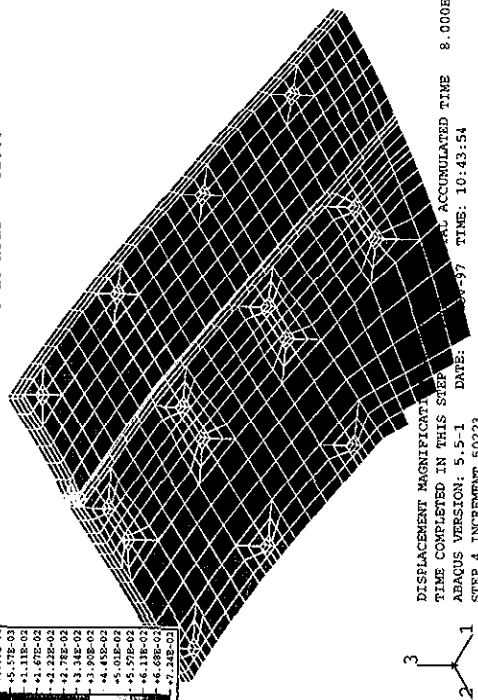
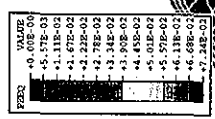
Item H-17 : Figure: Model Displacement and Sealing Skin Mises Contour Plots

Maximum value = 7.2446E-02 at node 82536
Minimum value = 0.0000E+00 at node 62060



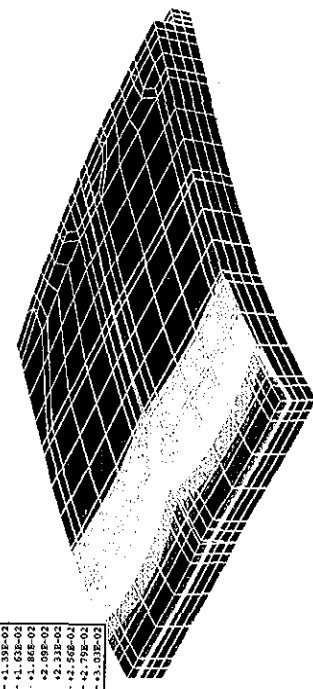
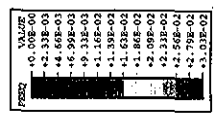
DISPLACEMENT MAGNIFICATION FACTOR = 1.00
TIME COMPLETED IN THIS STEP 2.000E-02 TOTAL ACCUMULATED TIME 8.000E-02
ABAQUS VERSION: 5.5-1 DATE: 02-NOV-97 TIME: 10:43:54
STEP 4 INCREMENT 50223

Maximum value = 7.2446E-02 at node 82536
Minimum value = 0.0000E+00 at node 62060



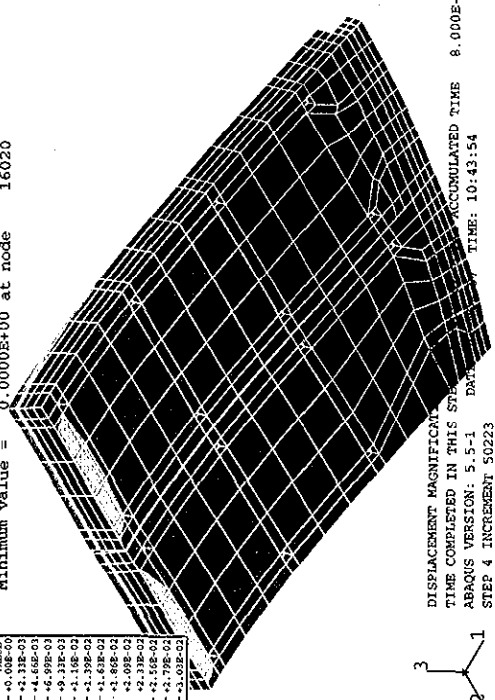
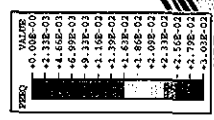
DISPLACEMENT MAGNIFICATION FACTOR = 1.00
TIME COMPLETED IN THIS STEP 2.000E-02 TOTAL ACCUMULATED TIME 8.000E-02
ABAQUS VERSION: 5.5-1 DATE: 02-NOV-97 TIME: 10:43:54
STEP 4 INCREMENT 50223

Maximum value = 3.0325E-02 at node 18121
Minimum value = 0.0000E+00 at node 16020



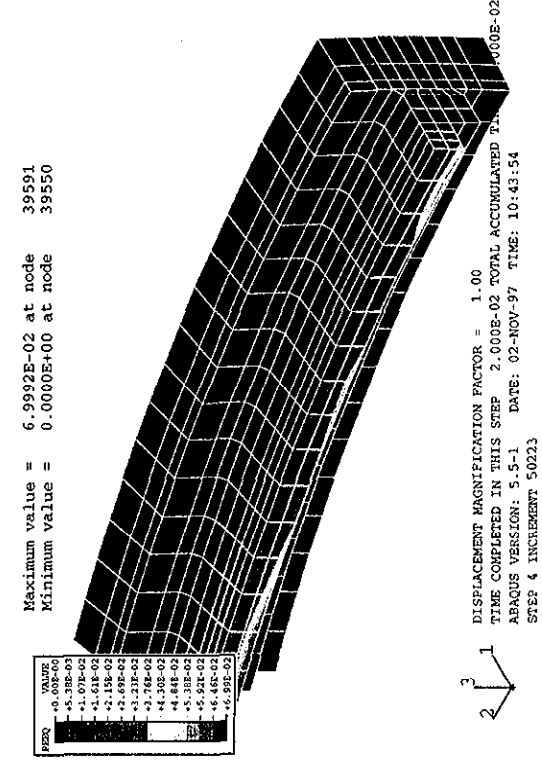
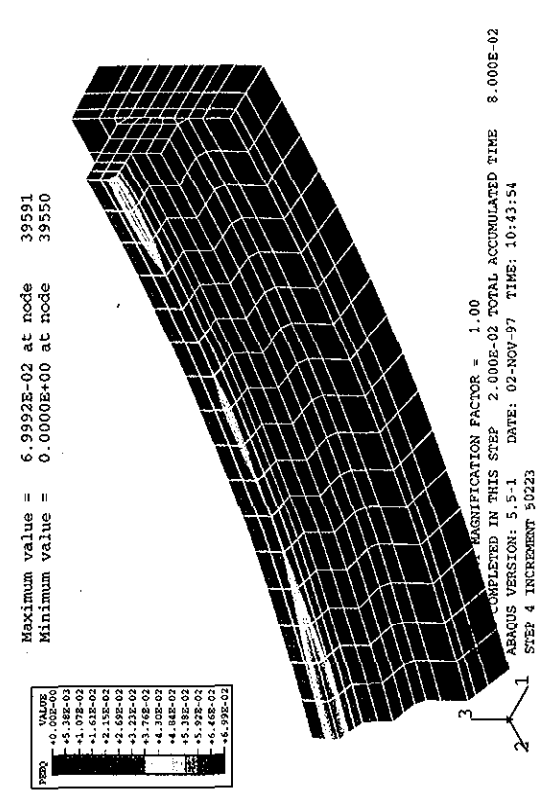
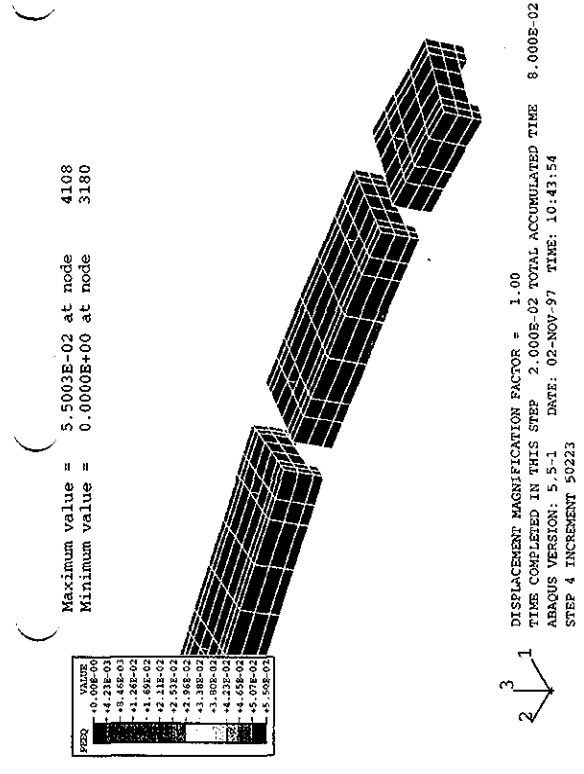
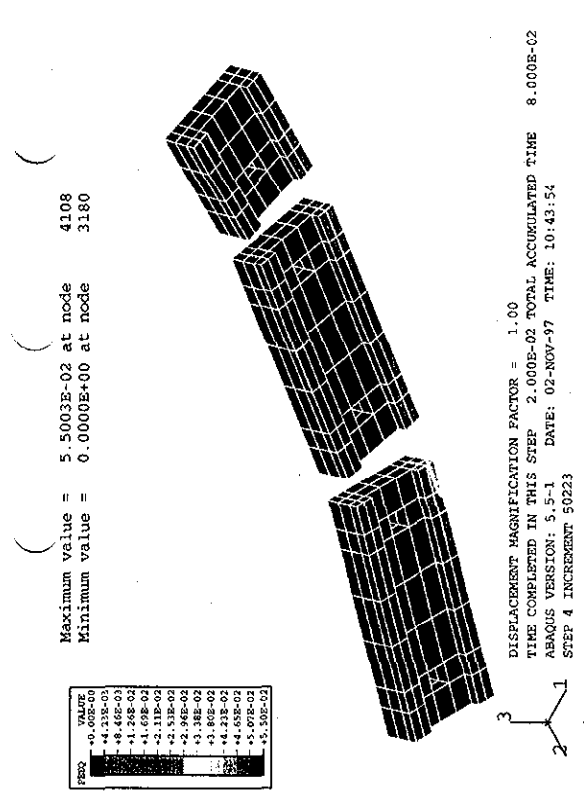
DISPLACEMENT MAGNIFICATION FACTOR = 1.00
TIME COMPLETED IN THIS STEP 2.000E-02 TOTAL ACCUMULATED TIME 8.000E-02
ABAQUS VERSION: 5.5-1 DATE: 02-NOV-97 TIME: 10:43:54
STEP 4 INCREMENT 50223

Maximum value = 3.0325E-02 at node 18121
Minimum value = 0.0000E+00 at node 16020

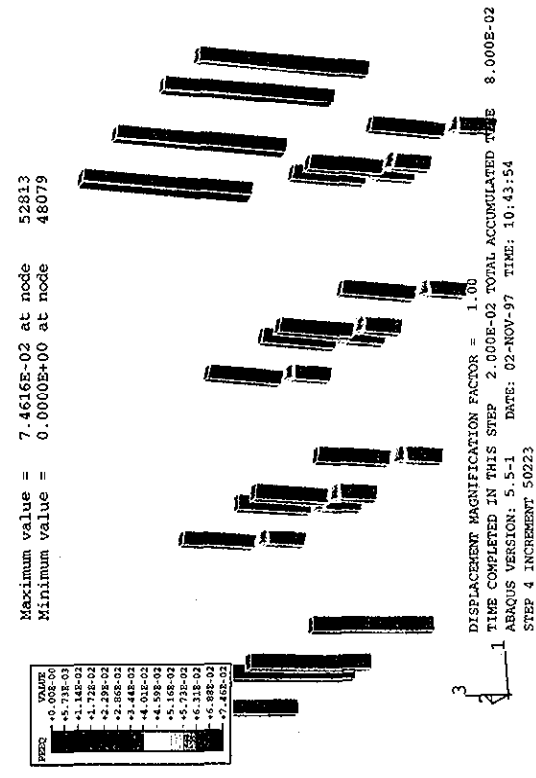
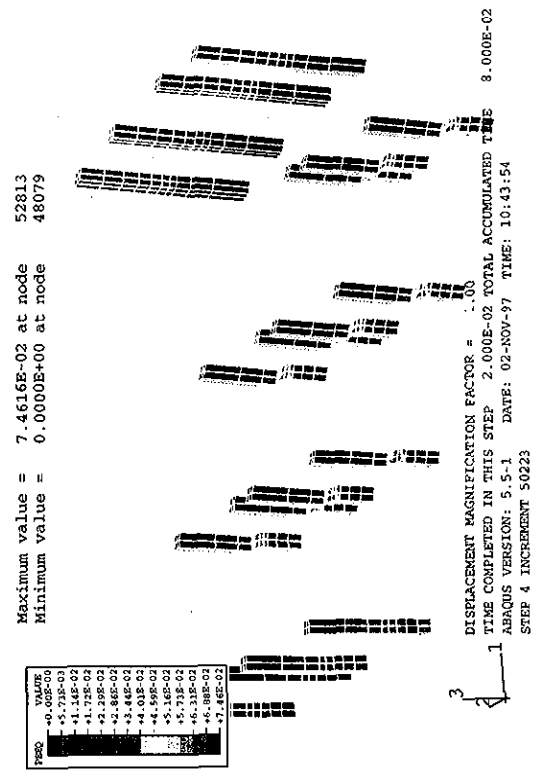
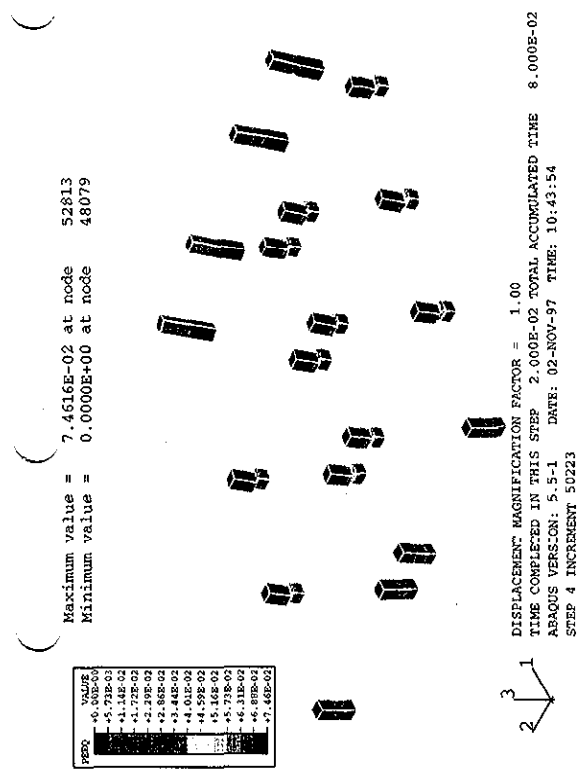
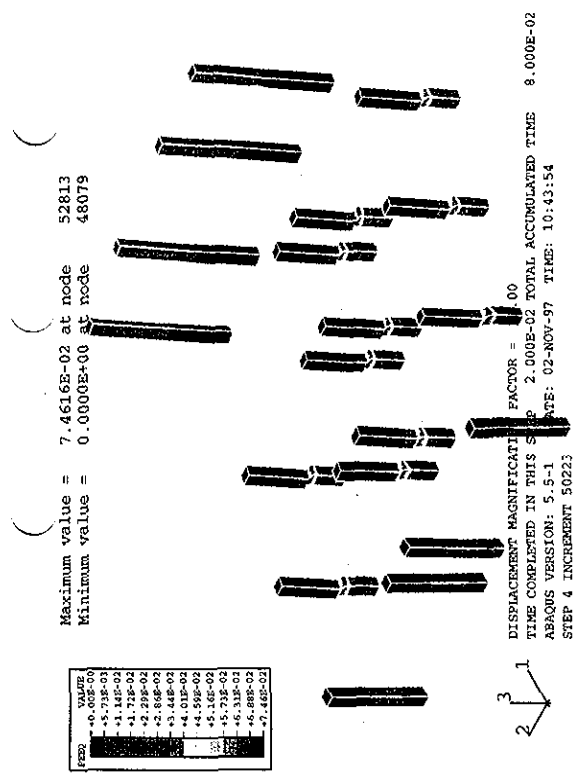


DISPLACEMENT MAGNIFICATION FACTOR = 1.00
TIME COMPLETED IN THIS STEP 2.000E-02 TOTAL ACCUMULATED TIME 8.000E-02
ABAQUS VERSION: 5.5-1 DATE: 02-NOV-97 TIME: 10:43:54
STEP 4 INCREMENT 50223

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



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



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

