shocktest HL copies=var Audit=1yr Glitch=0 Shock=3yr len=var lifem=var seed21
(impact=50,100pct len=1,2yr)

Input data from ../hl/data/GiantOutput_shock3yr_lenvar_00.txt
Output analysis into ../hl/tabs/shocktest_freq3yr_lenvar_seed21_analysis_20170319_00.txt

analysis tables by ./ShelfAnalyze.r
and summarize script ./summ-shock.r
at 20170319_161820 EDT

Summary losses (midmeans)

	shockfreq	impact	span	maxlife	lifem	c1	c2	c3	c4	c5	c8
1	30000	50	1	10000	10	10000	744	44.55	6.27	0.18	0
2	30000	50	1	10000	20	10000	398	10.09	1.09	0.00	0
3	30000	50	1	10000	30	10000	295	4.55	0.27	0.00	0
4	30000	50	1	10000	50	10000	185	7.18	0.09	0.00	0
5	30000	50	1	10000	100	10000	71	0.36	0.00	0.00	0
6	30000	50	1	10000	200	10000	44	0.00	0.00	0.00	0
7	30000	50	1	10000	300	10000	28	0.00	0.00	0.00	0
8	30000	50	1	10000	500	10000	19	1.64	0.00	0.00	0
9	30000	50	1	10000	1000	10000	9	0.00	0.00	0.00	0
10	30000	50	1	20000	10	10000	800	39.91	7.82	0.18	0
11	30000	50	1	20000	20	10000	366	9.64	0.36	0.00	0
12	30000	50	1	20000	30	10000	263	23.64	0.36	0.00	0
13	30000	50	1	20000	50	10000	155	1.36	0.00	0.00	0
14	30000	50	1	20000	100	10000	78	0.45	0.00	0.00	0
15	30000	50	1	20000	200	10000	39	0.00	0.00	0.00	0
16	30000	50	1	20000	300	10000	28	0.00	0.00	0.00	0
17	30000	50	1	20000	500	10000	15	0.09	0.00	0.00	0
18	30000	50	1	20000	1000	10000	7	0.09	0.00	0.00	0
19	30000	50	2	10000	10	10000	2845	184.91	7.82	0.18	0
20	30000	50	2	10000	20	10000	3961	54.45	2.00	0.00	0
21	30000	50	2	10000	30	10000	3856	74.36	0.73	0.00	0
22	30000	50	2	10000	50	10000	235	29.82	0.09	0.00	0
23	30000	50	2	10000	100	10000	115	19.45	0.00	0.00	0
24	30000	50	2	10000	200	10000	49	3.27	0.00	0.00	0
25	30000	50	2	10000	300	10000	1851	1.64	0.00	0.00	0
26	30000	50	2	10000	500	10000	2744	3.82	0.00	0.00	0
27	30000	50	2	10000	1000	10000	2735	2.36	0.00	0.00	0
28	30000	50	2	20000	10	10000	2704	246.45	6.73	0.09	0
29	30000	50	2	20000	20	10000	3988	51.82	0.91	0.00	0
30	30000	50	2	20000	30	10000	355	48.73	1.09	0.00	0
31	30000	50	2	20000	50	10000	205	18.27	0.00	0.00	0
32	30000	50	2	20000	100	10000	137	27.18	0.00	0.00	0
33	30000	50	2	20000	200	10000	49	4.64	0.00	0.00	0
34	30000	50	2	20000	300	10000	36	3.18	0.00	0.00	0
35	30000	50	2	20000	500	10000	3652	2.55	0.00	0.00	0
36	30000	50	2	20000	1000	10000	920	1.27	0.00	0.00	0
37	30000	50	3	10000	10	10000	2845	318.00	13.91	3.45	0
38	30000	50	3	10000	20	10000	3961	210.00	2.27	0.00	0
39	30000	50	3	10000	30	10000	3856	102.36	1.91	0.00	0
40	30000	50	3	10000	50	10000	235	38.00	0.27	0.00	0
41	30000	50	3	10000	100	10000	115	45.64	0.00	0.00	0
42	30000	50	3	10000	200	10000	49	11.00	0.00	0.00	0
43	30000	50	3	10000	300	10000	1851	11.64	0.00	0.00	0
44	30000	50	3	10000	500	10000	2744	4.27	0.00	0.00	0
45	30000	50	3	10000	1000	10000	2735	4.45	0.00	0.00	0
46	30000	50	3	20000	10	10000	2704	281.73	9.55	2.18	0
47	30000	50	3	20000	20	10000	3988	159.45	2.64	0.00	0
48	30000	50	3	20000	30	10000	355	100.36	1.45	0.00	0
49	30000	50	3	20000	50	10000	205	55.00	0.09	0.00	0
50	30000	50	3	20000	100	10000	137	33.91	0.00	0.00	0
51	30000	50	3	20000	200	10000	49	8.18	0.00	0.00	0
52	30000	50	3	20000	300	10000	36	10.00	0.00	0.00	0
53	30000	50	3	20000	500	10000	3652	5.55	0.00	0.00	0
54	30000	50	3	20000	1000	10000	920	3.00	0.00	0.00	0

55	30000	100	1	10000	10	10000	1227	56.55	9.91	0.45	0
56	30000	100	1	10000	20	10000	657	56.55	1.73	0.00	0
57	30000	100	1	10000	30	10000	483	6.45	0.82	0.00	0
58	30000	100	1	10000	50	10000	261	23.55	0.00	0.00	0
59	30000	100	1	10000	100	10000	138	5.91	0.00	0.00	0
60	30000	100	1	10000	200	10000	70	2.27	0.00	0.00	0
61	30000	100	1	10000	300	10000	44	0.91	0.00	0.00	0
62	30000	100	1	10000	500	10000	24	1.91	0.00	0.00	0
63	30000	100	1	10000	1000	10000	13	0.18	0.00	0.00	0
64	30000	100	2	10000	10	10000	10000	831.27	25.45	1.91	0
65	30000	100	2	10000	20	10000	10000	408.55	7.27	0.45	0
66	30000	100	2	10000	30	10000	10000	318.73	4.36	0.00	0
67	30000	100	2	10000	50	10000	10000	128.55	1.18	0.00	0
68	30000	100	2	10000	100	10000	10000	82.82	0.00	0.00	0
69	30000	100	2	10000	200	10000	10000	41.91	0.00	0.00	0
70	30000	100	2	10000	300	10000	10000	27.55	0.00	0.00	0
71	30000	100	2	10000	500	10000	10000	15.45	0.00	0.00	0
72	30000	100	2	10000	1000	10000	10000	7.91	0.00	0.00	0
73	30000	100	3	10000	10	10000	10000	10000.00	703.82	18.45	0
74	30000	100	3	10000	20	10000	10000	10000.00	351.82	21.73	0
75	30000	100	3	10000	30	10000	10000	10000.00	194.55	12.55	0
76	30000	100	3	10000	50	10000	10000	10000.00	140.00	7.00	0
77	30000	100	3	10000	100	10000	10000	10000.00	65.00	0.09	0
78	30000	100	3	10000	200	10000	10000	10000.00	30.18	0.00	0
79	30000	100	3	10000	300	10000	10000	10000.00	20.55	0.09	0
80	30000	100	3	10000	500	10000	10000	10000.00	14.27	0.00	0
81	30000	100	3	10000	1000	10000	10000	10000.00	6.09	0.09	0

Percentage losses (midmeans)

	shockfreq	impact	span	maxlife	lifem	c1	c2	c3	c4	c5	c8
1	30000	50	1	10000	10	100	7.44	0.4455	0.0627	0.0018	0
2	30000	50	1	10000	20	100	3.98	0.1009	0.0109	0.0000	0
3	30000	50	1	10000	30	100	2.95	0.0455	0.0027	0.0000	0
4	30000	50	1	10000	50	100	1.85	0.0718	0.0009	0.0000	0
5	30000	50	1	10000	100	100	0.71	0.0036	0.0000	0.0000	0
6	30000	50	1	10000	200	100	0.44	0.0000	0.0000	0.0000	0
7	30000	50	1	10000	300	100	0.28	0.0000	0.0000	0.0000	0
8	30000	50	1	10000	500	100	0.19	0.0164	0.0000	0.0000	0
9	30000	50	1	10000	1000	100	0.09	0.0000	0.0000	0.0000	0
10	30000	50	1	20000	10	100	8.00	0.3991	0.0782	0.0018	0
11	30000	50	1	20000	20	100	3.66	0.0964	0.0036	0.0000	0
12	30000	50	1	20000	30	100	2.63	0.2364	0.0036	0.0000	0
13	30000	50	1	20000	50	100	1.55	0.0136	0.0000	0.0000	0
14	30000	50	1	20000	100	100	0.78	0.0045	0.0000	0.0000	0
15	30000	50	1	20000	200	100	0.39	0.0000	0.0000	0.0000	0
16	30000	50	1	20000	300	100	0.28	0.0000	0.0000	0.0000	0
17	30000	50	1	20000	500	100	0.15	0.0009	0.0000	0.0000	0
18	30000	50	1	20000	1000	100	0.07	0.0009	0.0000	0.0000	0
19	30000	50	2	10000	10	100	28.45	1.8491	0.0782	0.0018	0
20	30000	50	2	10000	20	100	39.61	0.5445	0.0200	0.0000	0
21	30000	50	2	10000	30	100	38.56	0.7436	0.0073	0.0000	0
22	30000	50	2	10000	50	100	2.35	0.2982	0.0009	0.0000	0
23	30000	50	2	10000	100	100	1.15	0.1945	0.0000	0.0000	0
24	30000	50	2	10000	200	100	0.49	0.0327	0.0000	0.0000	0
25	30000	50	2	10000	300	100	18.51	0.0164	0.0000	0.0000	0
26	30000	50	2	10000	500	100	27.44	0.0382	0.0000	0.0000	0
27	30000	50	2	10000	1000	100	27.35	0.0236	0.0000	0.0000	0
28	30000	50	2	20000	10	100	27.04	2.4645	0.0673	0.0009	0
29	30000	50	2	20000	20	100	39.88	0.5182	0.0091	0.0000	0
30	30000	50	2	20000	30	100	3.55	0.4873	0.0109	0.0000	0
31	30000	50	2	20000	50	100	2.05	0.1827	0.0000	0.0000	0
32	30000	50	2	20000	100	100	1.37	0.2718	0.0000	0.0000	0
33	30000	50	2	20000	200	100	0.49	0.0464	0.0000	0.0000	0
34	30000	50	2	20000	300	100	0.36	0.0318	0.0000	0.0000	0
35	30000	50	2	20000	500	100	36.52	0.0255	0.0000	0.0000	0
36	30000	50	2	20000	1000	100	9.20	0.0127	0.0000	0.0000	0

37	30000	50	3	10000	10	100	28.45	3.1800	0.1391	0.0345	0
38	30000	50	3	10000	20	100	39.61	2.1000	0.0227	0.0000	0
39	30000	50	3	10000	30	100	38.56	1.0236	0.0191	0.0000	0
40	30000	50	3	10000	50	100	2.35	0.3800	0.0027	0.0000	0
41	30000	50	3	10000	100	100	1.15	0.4564	0.0000	0.0000	0
42	30000	50	3	10000	200	100	0.49	0.1100	0.0000	0.0000	0
43	30000	50	3	10000	300	100	18.51	0.1164	0.0000	0.0000	0
44	30000	50	3	10000	500	100	27.44	0.0427	0.0000	0.0000	0
45	30000	50	3	10000	1000	100	27.35	0.0445	0.0000	0.0000	0
46	30000	50	3	20000	10	100	27.04	2.8173	0.0955	0.0218	0
47	30000	50	3	20000	20	100	39.88	1.5945	0.0264	0.0000	0
48	30000	50	3	20000	30	100	3.55	1.0036	0.0145	0.0000	0
49	30000	50	3	20000	50	100	2.05	0.5500	0.0009	0.0000	0
50	30000	50	3	20000	100	100	1.37	0.3391	0.0000	0.0000	0
51	30000	50	3	20000	200	100	0.49	0.0818	0.0000	0.0000	0
52	30000	50	3	20000	300	100	0.36	0.1000	0.0000	0.0000	0
53	30000	50	3	20000	500	100	36.52	0.0555	0.0000	0.0000	0
54	30000	50	3	20000	1000	100	9.20	0.0300	0.0000	0.0000	0
55	30000	100	1	10000	10	100	12.27	0.5655	0.0991	0.0045	0
56	30000	100	1	10000	20	100	6.57	0.5655	0.0173	0.0000	0
57	30000	100	1	10000	30	100	4.83	0.0645	0.0082	0.0000	0
58	30000	100	1	10000	50	100	2.61	0.2355	0.0000	0.0000	0
59	30000	100	1	10000	100	100	1.38	0.0591	0.0000	0.0000	0
60	30000	100	1	10000	200	100	0.70	0.0227	0.0000	0.0000	0
61	30000	100	1	10000	300	100	0.44	0.0091	0.0000	0.0000	0
62	30000	100	1	10000	500	100	0.24	0.0191	0.0000	0.0000	0
63	30000	100	1	10000	1000	100	0.13	0.0018	0.0000	0.0000	0
64	30000	100	2	10000	10	100	100.00	8.3127	0.2545	0.0191	0
65	30000	100	2	10000	20	100	100.00	4.0855	0.0727	0.0045	0
66	30000	100	2	10000	30	100	100.00	3.1873	0.0436	0.0000	0
67	30000	100	2	10000	50	100	100.00	1.2855	0.0118	0.0000	0
68	30000	100	2	10000	100	100	100.00	0.8282	0.0000	0.0000	0
69	30000	100	2	10000	200	100	100.00	0.4191	0.0000	0.0000	0
70	30000	100	2	10000	300	100	100.00	0.2755	0.0000	0.0000	0
71	30000	100	2	10000	500	100	100.00	0.1545	0.0000	0.0000	0
72	30000	100	2	10000	1000	100	100.00	0.0791	0.0000	0.0000	0
73	30000	100	3	10000	10	100	100.00	100.0000	7.0382	0.1845	0
74	30000	100	3	10000	20	100	100.00	100.0000	3.5182	0.2173	0
75	30000	100	3	10000	30	100	100.00	100.0000	1.9455	0.1255	0
76	30000	100	3	10000	50	100	100.00	100.0000	1.4000	0.0700	0
77	30000	100	3	10000	100	100	100.00	100.0000	0.6500	0.0009	0
78	30000	100	3	10000	200	100	100.00	100.0000	0.3018	0.0000	0
79	30000	100	3	10000	300	100	100.00	100.0000	0.2055	0.0009	0
80	30000	100	3	10000	500	100	100.00	100.0000	0.1427	0.0000	0
81	30000	100	3	10000	1000	100	100.00	100.0000	0.0609	0.0009	0

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====== shockfreq 30000 impact 50 duration 10000 span 1 lifem 10 copies 1 N 21 ======

The decimal point is 3 digit(s) to the right of the |

```
  2 | 990
  4 |
  6 |
  8 |
 10 | 000000000000000000
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shockfreq 30000 impact 50 duration 10000 span 1 lifem 10 copies 1 N 21

median	10000
trimean	10000
midmean	10000
mean	8988
stddev	2541
IQR	0