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* *
* * N X N a s t r a n * *
* *
* * VERSION - 12.0.1 * *
* *
* * JAN 24, 2018 * *
* *
* *
* *Intel64 Family 6 Model 79 Steppi * *
* *
* *MODEL Intel(R) Xeon(R) CPU E5-26 * *
* *

```
74 * * Windows 7 SP1 Service Pack 1 * *
75 * * * * * * * * * * * * * * * * * *
76 * * Compiled for X86-64 * *
77 * * * * * * * * * * * * * * * * * *
78 * * * * * * * * * * * * * * * * * *
79 * * * * * * * * * * * * * * * * * *
```

80 1

81 Welcome to NX Nastran
82 -----
83

84
85
86 This "news" information can be turned off by setting "news=no" in the runtime
87 configuration (RC) file. The "news" keyword can be set in the system RC file
88 for global, or multi-user control, and in a local file for local control.
89 Individual jobs can be controlled by setting news to yes or no on the command
90 line.

91 1 SEPTEMBER
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93 0 N A S T R A N F I L E A N D S Y S T E M P A R A M E T E R E
94 C H O
95 0

96
97 NASTRAN BUFFSIZE=32769 \$(C:/PLM/NXNASTRAN12/CONF/NAST12.RCF[3])
98 NASTRAN BUFFPOOL=70755
99 NASTRAN DIAGA=128 DIAGB=0 \$(C:/PLM/NXNASTRAN12/CONF/NAST12.RCF[10])
100 NASTRAN PARALLEL=45 \$(C:/PLM/NXNASTRAN12/CONF/NAST12.RCF[12])
101 NASTRAN REAL=25768230912 \$(MEMORY LIMIT FOR MPI AND OTHER SPECIALIZED MODULES)
102 NASTRAN BUFFPOOL=51
103 \$*
104 \$*
105 \$* SIMCENTER V11.0.0.33 TRANSLATOR
106 \$* FOR NX NASTRAN VERSION 11.0
107 \$*
108 \$* FEM FILE: O:\CZHNR\NX_DATEN\RGMK2-SEITENSEKTORBEGRENZER\RGMK2-SEI
109 \$* SIM FILE: O:\CZLEUT\SEITENSEKTOR SCHELDE-06\RGMK2-ANSCHLAG_SCHELD
110 \$* ANALYSIS TYPE: STRUCTURAL
111 \$* SOLUTION NAME: NON-LIN_TEST
112 \$* SOLUTION TYPE: SOL 601,106 ADVANCED NONLINEAR STATICS
113 \$*
114 \$* SOLVER INPUT FILE: RGMK2-ANSCHLAG_SCHELDE_FEM1_SIM1-NON-LIN_TEST.DAT
115 \$* CREATION DATE: 18-SEP-2018
116 \$* CREATION TIME: 19:27:01
117 \$* HOSTNAME: SEMSALES
118 \$* NASTRAN LICENSE: DESKTOP
119 \$*
120 \$* UNITS: MM (MILLI-NEWTON)
121 \$* ... LENGTH : MM
122 \$* ... TIME : SEC
123 \$* ... MASS : KILOGRAM (KG)
124 \$* ... TEMPERATURE : DEG CELSIUS
125 \$* ... FORCE : MILLI-NEWTON
126 \$* ... THERMAL ENERGY : MN-MM (MICRO-JOULE)
127 \$*
128 \$* IMPORTANT NOTE:
129 \$* THIS BANNER WAS GENERATED BY SIMCENTER AND ALTERING THIS
130 \$* INFORMATION MAY COMPROMISE THE PRE AND POST PROCESSING OF RESULTS
131 \$*
132 \$*
133 \$*
134 \$*
135 \$*
136 \$* FILE MANAGEMENT
137 \$*
138 \$*
139 \$*
140 ASSIGN OUTPUT2='advnlin.op2',UNIT=21


```

266                                     (NUMBER OF FORTRAN RECORDS WRITTEN = 1
                                     RECORDS.)
267                                     (TOTAL DATA WRITTEN FOR EOF MARKER = 1
                                     WORDS.)
268  ^^PARALLEL = 45
269  *** USER INFORMATION MESSAGE 4109 (OUTPBN2)
270  THE LABEL IS NX12.0.1 FOR FORTRAN UNIT 12
271  (MAXIMUM SIZE OF FORTRAN RECORDS WRITTEN = 7 WORDS.)
272  (NUMBER OF FORTRAN RECORDS WRITTEN = 8 RECORDS.)
273  (TOTAL DATA WRITTEN FOR TAPE LABEL = 17 WORDS.)
274  *** USER INFORMATION MESSAGE 4114 (OUTPBN2)
275  DATA BLOCK IBULK WRITTEN ON FORTRAN UNIT 12, TRL =
276  101 1 0
277  0 0 0 0
278  (MAXIMUM POSSIBLE FORTRAN RECORD SIZE = 65538 WORDS.)
279  (MAXIMUM SIZE OF FORTRAN RECORDS WRITTEN = 20 WORDS.)
280  (NUMBER OF FORTRAN RECORDS WRITTEN = 7076614 RECORDS.)
281  (TOTAL DATA WRITTEN FOR DATA BLOCK = 33967703 WORDS.)
282  *** USER INFORMATION MESSAGE 4114 (OUTPBN2)
283  DATA BLOCK ICASE WRITTEN ON FORTRAN UNIT 12, TRL =
284  102 33 0
285  0 0 0 0
286  (MAXIMUM POSSIBLE FORTRAN RECORD SIZE = 65538 WORDS.)
287  (MAXIMUM SIZE OF FORTRAN RECORDS WRITTEN = 20 WORDS.)
288  (NUMBER OF FORTRAN RECORDS WRITTEN = 179 RECORDS.)
289  (TOTAL DATA WRITTEN FOR DATA BLOCK = 818 WORDS.)
290  1
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292
293
294  *** USER INFORMATION MESSAGE 4114 (OUTPBN2)
295  DATA BLOCK CASECC WRITTEN ON FORTRAN UNIT 12, TRL =
296  103 1 0
297  1200 0 0 0
298  (MAXIMUM POSSIBLE FORTRAN RECORD SIZE = 65538 WORDS.)
299  (MAXIMUM SIZE OF FORTRAN RECORDS WRITTEN = 1200 WORDS.)
300  (NUMBER OF FORTRAN RECORDS WRITTEN = 19 RECORDS.)
301  (TOTAL DATA WRITTEN FOR DATA BLOCK = 1226 WORDS.)
302  *** USER INFORMATION MESSAGE 4114 (OUTPBN2)
303  DATA BLOCK PVT0 WRITTEN ON FORTRAN UNIT 12, TRL =
304  101 39 0
305  0 0 0 0
306  (MAXIMUM POSSIBLE FORTRAN RECORD SIZE = 65538 WORDS.)
307  (MAXIMUM SIZE OF FORTRAN RECORDS WRITTEN = 39 WORDS.)
308  (NUMBER OF FORTRAN RECORDS WRITTEN = 19 RECORDS.)
309  (TOTAL DATA WRITTEN FOR DATA BLOCK = 65 WORDS.)
310  *** USER INFORMATION MESSAGE 4114 (OUTPBN2)
311  DATA BLOCK GPL WRITTEN ON FORTRAN UNIT 12, TRL =
312  101 429688 429688
313  0 0 0 0
314  (MAXIMUM POSSIBLE FORTRAN RECORD SIZE = 65538 WORDS.)
315  (MAXIMUM SIZE OF FORTRAN RECORDS WRITTEN = 65538 WORDS.)
316  (NUMBER OF FORTRAN RECORDS WRITTEN = 62 RECORDS.)
317  (TOTAL DATA WRITTEN FOR DATA BLOCK = 1289095 WORDS.)
318  *** USER INFORMATION MESSAGE 4114 (OUTPBN2)
319  DATA BLOCK CSTM WRITTEN ON FORTRAN UNIT 12, TRL =
320  101 429688 14
321  3 1 168 0
322  (MAXIMUM POSSIBLE FORTRAN RECORD SIZE = 65538 WORDS.)
323  (MAXIMUM SIZE OF FORTRAN RECORDS WRITTEN = 336 WORDS.)
324  (NUMBER OF FORTRAN RECORDS WRITTEN = 24 RECORDS.)
325  (TOTAL DATA WRITTEN FOR DATA BLOCK = 422 WORDS.)
326  *** USER INFORMATION MESSAGE 4114 (OUTPBN2)
327  DATA BLOCK GPDT WRITTEN ON FORTRAN UNIT 12, TRL =
328  102 429688 7

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	0	1	0	0
325	(MAXIMUM POSSIBLE FORTRAN RECORD SIZE = 65538 WORDS.)			
326	(MAXIMUM SIZE OF FORTRAN RECORDS WRITTEN = 65538 WORDS.)			
327	(NUMBER OF FORTRAN RECORDS WRITTEN = 149 RECORDS.)			
328	(TOTAL DATA WRITTEN FOR DATA BLOCK = 4296906 WORDS.)			
329	*** USER INFORMATION MESSAGE 4114 (OUTPBN2)			
330	DATA BLOCK EPT WRITTEN ON FORTRAN UNIT 12, TRL =			
331	101	8192	4352	
	0	0	0	32
332	(MAXIMUM POSSIBLE FORTRAN RECORD SIZE = 65538 WORDS.)			
333	(MAXIMUM SIZE OF FORTRAN RECORDS WRITTEN = 60 WORDS.)			
334	(NUMBER OF FORTRAN RECORDS WRITTEN = 39 RECORDS.)			
335	(TOTAL DATA WRITTEN FOR DATA BLOCK = 198 WORDS.)			
336	*** USER INFORMATION MESSAGE 4114 (OUTPBN2)			
337	DATA BLOCK MPT WRITTEN ON FORTRAN UNIT 12, TRL =			
338	101	34816	0	
	0	0	0	0
339	(MAXIMUM POSSIBLE FORTRAN RECORD SIZE = 65538 WORDS.)			
340	(MAXIMUM SIZE OF FORTRAN RECORDS WRITTEN = 111 WORDS.)			
341	(NUMBER OF FORTRAN RECORDS WRITTEN = 29 RECORDS.)			
342	(TOTAL DATA WRITTEN FOR DATA BLOCK = 228 WORDS.)			
343	1			SEPTEMBER
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344				
345	0			
346	0			
347				
348				
349	*** USER INFORMATION MESSAGE 4114 (OUTPBN2)			
350	DATA BLOCK GEOM2 WRITTEN ON FORTRAN UNIT 12, TRL =			
351	101	1024	256	
	128	512	128	0
352	(MAXIMUM POSSIBLE FORTRAN RECORD SIZE = 65538 WORDS.)			
353	(MAXIMUM SIZE OF FORTRAN RECORDS WRITTEN = 65538 WORDS.)			
354	(NUMBER OF FORTRAN RECORDS WRITTEN = 156 RECORDS.)			
355	(TOTAL DATA WRITTEN FOR DATA BLOCK = 3779277 WORDS.)			
356	*** USER INFORMATION MESSAGE 4114 (OUTPBN2)			
357	DATA BLOCK GEOM3 WRITTEN ON FORTRAN UNIT 12, TRL =			
358	102	0	0	
	64	0	32768	0
359	(MAXIMUM POSSIBLE FORTRAN RECORD SIZE = 65538 WORDS.)			
360	(MAXIMUM SIZE OF FORTRAN RECORDS WRITTEN = 283 WORDS.)			
361	(NUMBER OF FORTRAN RECORDS WRITTEN = 29 RECORDS.)			
362	(TOTAL DATA WRITTEN FOR DATA BLOCK = 325 WORDS.)			
363	*** USER INFORMATION MESSAGE 4114 (OUTPBN2)			
364	DATA BLOCK GEOM4 WRITTEN ON FORTRAN UNIT 12, TRL =			
365	103	0	0	
	0	544	512	0
366	(MAXIMUM POSSIBLE FORTRAN RECORD SIZE = 65538 WORDS.)			
367	(MAXIMUM SIZE OF FORTRAN RECORDS WRITTEN = 3575 WORDS.)			
368	(NUMBER OF FORTRAN RECORDS WRITTEN = 34 RECORDS.)			
369	(TOTAL DATA WRITTEN FOR DATA BLOCK = 6830 WORDS.)			
370	*** USER INFORMATION MESSAGE 4114 (OUTPBN2)			
371	DATA BLOCK GEOM1 WRITTEN ON FORTRAN UNIT 12, TRL =			
372	104	0	6144	
	8	0	0	0
373	(MAXIMUM POSSIBLE FORTRAN RECORD SIZE = 65538 WORDS.)			
374	(MAXIMUM SIZE OF FORTRAN RECORDS WRITTEN = 65538 WORDS.)			
375	(NUMBER OF FORTRAN RECORDS WRITTEN = 178 RECORDS.)			
376	(TOTAL DATA WRITTEN FOR DATA BLOCK = 4726926 WORDS.)			
377	*** USER INFORMATION MESSAGE 4114 (OUTPBN2)			
378	DATA BLOCK BGPDT WRITTEN ON FORTRAN UNIT 12, TRL =			
379	105	429688	0	
	2578128	1	0	496853
380	(MAXIMUM POSSIBLE FORTRAN RECORD SIZE = 65538 WORDS.)			
381	(MAXIMUM SIZE OF FORTRAN RECORDS WRITTEN = 65538 WORDS.)			
382	(NUMBER OF FORTRAN RECORDS WRITTEN = 206 RECORDS.)			
383	(TOTAL DATA WRITTEN FOR DATA BLOCK = 6015662 WORDS.)			

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384 *** USER INFORMATION MESSAGE 4114 (OUTPBN2)
385 DATA BLOCK DIT WRITTEN ON FORTRAN UNIT 12, TRL =
386          101          0          2
          0          0          0          0
387 (MAXIMUM POSSIBLE FORTRAN RECORD SIZE = 65538 WORDS.)
388 (MAXIMUM SIZE OF FORTRAN RECORDS WRITTEN = 143 WORDS.)
389 (NUMBER OF FORTRAN RECORDS WRITTEN = 24 RECORDS.)
390 (TOTAL DATA WRITTEN FOR DATA BLOCK = 176 WORDS.)
391 *** USER INFORMATION MESSAGE 4114 (OUTPBN2)
392 DATA BLOCK CONTACT WRITTEN ON FORTRAN UNIT 12, TRL =
393          101          0          0
          0          0          636          0
394 (MAXIMUM POSSIBLE FORTRAN RECORD SIZE = 65538 WORDS.)
395 (MAXIMUM SIZE OF FORTRAN RECORDS WRITTEN = 65538 WORDS.)
396 (NUMBER OF FORTRAN RECORDS WRITTEN = 51 RECORDS.)
397 (TOTAL DATA WRITTEN FOR DATA BLOCK = 67009 WORDS.)
398 ^^^DYNAMIC MEMORY IN MBYTES = 79588
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401 0

402 ^^^MEMORY PASSED TO ADINA IN MB 79588
403 ^^^OPTION FLAG GIVEN TO ADINA 451
404 *** ISHELL PROGRAM 'NXNA' STARTED ***
405 *** ADVANCED NONLINEAR ANALYSIS ***
406 *** START SOL 601 ***
407 *** TEMPORARY FILES tmpadvnlin.* WILL BE CREATED DURING ANALYSIS RUN ***
408 *** PROCESS NASTRAN DATA ***
409 *** MAXIMUM MEMORY FOR PROCESSING NASTRAN DATA = 79588 MB ***
410 *** ADNAST (06/27/17 11:22) ***
411
412 *** Reading Nastran data ...
413
414
415 ***WARNING: THE FOLLOWING LIST SHOWS UNSUPPORTED FIELDS FOR CERTAIN BULK DATA
416 ENTRIES PROCESSED IN THIS INPUT FILE. YOUR MODEL MAY BE AFFECTED
417 IF VALUES ARE ENTERED IN THESE UNSUPPORTED FIELDS.
418
419
*****
*****
420 * ENTRY : UNSUPPORTED FIELDS /
421 RESTRICTIONS *
*
-----
----- *
422 * CBAR : W1A, W2A, W3A, W1B, W2B,
423 W3B *
*
: *
424
*****
*****
425
426 ***WARNING: Contact surface compliance not used for contact group 101.
427 Contact compliance can improve the solution accuracy and
convergence rate.
428 ***WARNING: Contact surface compliance not used for contact group 102.
429 Contact compliance can improve the solution accuracy and
convergence rate.
430 ***WARNING: Contact surface compliance not used for contact group 103.
431 Contact compliance can improve the solution accuracy and
convergence rate.
432 ***WARNING: Contact surface compliance not used for contact group 104.
433 Contact compliance can improve the solution accuracy and
convergence rate.
434 ***WARNING: No element connection for node 41 directions 2, 3, 4, 5, 6
435 ***WARNING: Similar warning suppressed for 429635 other nodes.
436 ***WARNING: Nodal degrees of freedom without element
437 connection have been fixed for data input file.
438 *** ADINA data input file tmpadvnlin.dat successfully created.

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439 *** Allocating 79588 MB of memory ...
440
441
442 *** EXECUTE SOLUTION ***
443 *** MAXIMUM MEMORY FOR ANALYSIS = 79588 MB ***
444 PID=12780
445 Could not check out NX Nastran license feature nx_nas_advnlm_ent.
446 *** SOL 601 EXITED WITH INVALID STATUS CODE -1
447 *** MOST LIKELY, PROGRAM HAS CRASHED.
448 *** FATAL ERROR: SOL 601 DID NOT FINISH SUCCESSFULLY.
449 *** ADVANCED NONLINEAR EXIT CODE 0 ***
450 *** ISHELL PROGRAM 'NXNA' COMPLETED ***
451 ^^^ USER FATAL MESSAGE
452 ^^^ ERROR IN ADVANCED NONLINEAR MODULE 0
453 ^^^SOL601 FAILED
454 1
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455
456 0
457 * * * * D B D I C T P R I N T * * * * SUBDMAP = PRSUM , DMAP STATEMENT
NO. 28
458
459
460
461 0 * * * * A N A L Y S I S S U M M A R Y T A B L
E * * * *
462 0 SEID PEID PROJ VERS APRCH SEMG SEMR SEKR SELG SELR MODES DYNRED SOLLIN
PVALID SOLNL LOOPID DESIGN CYCLE SENSITIVITY
463
-----
464 OSEID = SUPERELEMENT ID.
465 PEID = PRIMARY SUPERELEMENT ID OF IMAGE SUPERELEMENT.
466 PROJ = PROJECT ID NUMBER.
467 VERS = VERSION ID.
468 APRCH = BLANK FOR STRUCTURAL ANALYSIS. HEAT FOR HEAT TRANSFER ANALYSIS.
469 SEMG = STIFFNESS AND MASS MATRIX GENERATION STEP.
470 SEMR = MASS MATRIX REDUCTION STEP (INCLUDES EIGENVALUE SOLUTION FOR MODES).
471 SEKR = STIFFNESS MATRIX REDUCTION STEP.
472 SELG = LOAD MATRIX GENERATION STEP.
473 SELR = LOAD MATRIX REDUCTION STEP.
474 MODES = T (TRUE) IF NORMAL MODES OR BUCKLING MODES CALCULATED.
475 DYNRED = T (TRUE) MEANS GENERALIZED DYNAMIC AND/OR COMPONENT MODE REDUCTION
PERFORMED.
476 SOLLIN = T (TRUE) IF LINEAR SOLUTION EXISTS IN DATABASE.
477 PVALID = P-DISTRIBUTION ID OF P-VALUE FOR P-ELEMENTS
478 LOOPID = THE LAST LOOPID VALUE USED IN THE NONLINEAR ANALYSIS. USEFUL FOR RESTARTS.
479 SOLNL = T (TRUE) IF NONLINEAR SOLUTION EXISTS IN DATABASE.
480 DESIGN CYCLE = THE LAST DESIGN CYCLE (ONLY VALID IN OPTIMIZATION).
481 SENSITIVITY = SENSITIVITY MATRIX GENERATION FLAG.
482 1 * * * * END OF JOB * * *
483
484
485

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