

```

1 1
2 MACHINE MODEL OPERATING SYSTEM NX
3 Nastran BUILD DATE RUN DATE
4 Intel64 Family 6 Mod Intel(R) Xeon(R) CPU Windows 7 SP1 Servic
5 VERSION 12.0.1 JAN 24, 2018 SEP 18, 2018

```

```

6 === N X N a s t r a n E X E C U T I
7 O N S U M M A R Y ===

```

| Day_Time | Elapsed | I/O_Mb | Del_Mb | CPU_Sec | Del_CPU | Subroutine |
|----------|---------|--------|--------|---------|---------|------------|
| 19:29:59 | 0:00 | 0.0 | 0.0 | 0.0 | 0.0 | SEMTRN BGN |
| 19:29:59 | 0:00 | 0.0 | 0.0 | 0.0 | 0.0 | SEMTRN END |
| 19:29:59 | 0:00 | 0.0 | 0.0 | 0.0 | 0.0 | DBINIT BGN |

```

13 ** CURRENT PROJECT ID = ' "BLANK" ' ** CURRENT VERSION ID = 1

```

```

15 S U M M A R Y O F F I L E A S S I G N M E N T F O R T H E P R I M A
16 R Y D A T A B A S E ( D B S N O 1, N X N 1 2 . 1 )

```

| ASSIGNED PHYSICAL FILE NAME (/ORIGINAL) | LOGICAL NAME | DBSET |
|--|--------------|------------|
| STATUS BUFSIZE CLUSTER SIZE TIME STAMP | | |
| ...m1_sim1-non-lin_test.T12128_56.MASTER | MASTER | MASTER |
| NEW 32769 1 180918192959 | | |
| ...em1_sim1-non-lin_test.T12128_56.DBALL | DBALL | DBALL |
| NEW 32769 1 180918192960 | | |
| ...m1_sim1-non-lin_test.T12128_56.OBJSCR | OBJSCR | OBJSCR |
| NEW 8193 1 180918192961 | | |
| **** MEM FILE **** * N/A * | | |
| ...1_sim1-non-lin_test.T12128_56.SCRATCH | SCRATCH | SCRATCH |
| NEW 32769 1 180918192962 | | |
| ...m1_sim1-non-lin_test.T12128_56.SCR300 | SCR300 | SCRATCH |
| NEW 32769 1 180918192963 | | |
| 19:29:59 0:00 7.0 7.0 0.0 0.0 | | DBINIT END |
| 19:29:59 0:00 7.0 0.0 0.0 0.0 | | XCSA BGN |

```

28 S U M M A R Y O F F I L E A S S I G N M E N T F O R T H E D E L I V
29 E R Y D A T A B A S E ( D B S N O 2, N X N 1 2 . 1 )

```

| ASSIGNED PHYSICAL FILE NAME (/ORIGINAL) | LOGICAL NAME | DBSET |
|--|--------------|------------|
| STATUS BUFSIZE CLUSTER SIZE TIME STAMP | | |
| c:/plm/.../nxn12p01/em64tntl/SSS.MASTERA | MASTERA | MASTER |
| OLD 8193 1 180124102829 | | |
| ./sss.MASTERA | | |
| c:/plm/.../nxn12p01/em64tntl/SSS.MSCOBJ | MSCOBJ | MSCOBJ |
| OLD 8193 1 180124102834 | | |
| ./sss.MSCOBJ | | |
| c:/plm/.../nxn12p01/em64tntl/SSS.MSCSOU | MSCSOU | MSCSOU |
| OLD 8193 1 180124102835 | | |
| ./sss.MSCSOU | | |
| 19:29:59 0:00 60.0 53.0 0.0 0.0 | | XCSA END |
| 19:29:59 0:00 60.0 0.0 0.0 0.0 | | CGPI BGN |
| 19:29:59 0:00 60.0 0.0 0.0 0.0 | | CGPI END |
| 19:29:59 0:00 60.0 0.0 0.0 0.0 | | LINKER BGN |
| 19:29:59 0:00 68.0 8.0 0.0 0.0 | | LINKER END |

```

44 S U M M A R Y O F P H Y S I C A L F I L E I N F O R M A
45 T I O N

```

| ASSIGNED PHYSICAL FILE NAME | RECL (BYTES) |
|--|--------------|
| MODE FLAGS WSIZE (WNUM) | |
| ...anschlag_schelde_fem1_sim1-non-lin_test.T12128_56.SCRATCH | 262144 |
| R/W N/A | |
| ...-anschlag_schelde_fem1_sim1-non-lin_test.T12128_56.OBJSCR | 65536 |
| R/W N/A | |
| ...-anschlag_schelde_fem1_sim1-non-lin_test.T12128_56.MASTER | 262144 |
| R/W N/A | |

```

51 ...2-anschlag_schelde_fem1_sim1-non-lin_test.T12128_56.DBALL 262144
R/W N/A
52 ...-anschlag_schelde_fem1_sim1-non-lin_test.T12128_56.SCR300 262144
R/W N/A
53 c:/plm/nxnastran12/nxn12p01/em64tntl/SSS.MASTERA 65536
R/O N/A
54 c:/plm/nxnastran12/nxn12p01/em64tntl/SSS.MSCOBJ 65536
R/O N/A

```

```

55
56 FLAG VALUES ARE --
57 B BUFFERED I/O USED TO PROCESS FILE
58 M FILE MAPPING USED TO PROCESS FILE
59 R FILE BEING ACCESSED IN 'RAW' MODE
60

```

| 61 | ASSIGNED PHYSICAL FILE NAME | LOGICAL | UNIT |
|----|--|---------|------|
| 62 | STATUS ACCESS RECL FORM FLAGS | ----- | ---- |
| 63 | ./rgmk2-anschlag_schelde_fem1_sim1-non-lin_test.f04 | LOGFL | 4 |
| | OLD SEQ N/A FMTD | | |
| 64 | ./rgmk2-anschlag_schelde_fem1_sim1-non-lin_test.f06 | PRINT | 6 |
| | OLD SEQ N/A FMTD | | |
| 65 | c:/plm/nxnastran12/nxn12p01/nast/news.txt | INCLD1 | 9 |
| | OLD SEQ N/A FMTD R | | |
| 66 | ./rgmk2-anschlag_schelde_fem1_sim1-non-lin_test.plt | PLOT | 14 |
| | OLD SEQ N/A UNFMTD | | |
| 67 | ./rgmk2-anschlag_schelde_fem1_sim1-non-lin_test.op2 | OP2 | 12 |
| | OLD SEQ N/A UNFMTD | | |
| 68 | .../rgmk2-anschlag_schelde_fem1_sim1-non-lin_test.T12128_56. | OUTPUT2 | 18 |
| | UNKNOWN SEQ N/A UNFMTD | | |
| 69 | .../rgmk2-anschlag_schelde_fem1_sim1-non-lin_test.T12128_56. | INPUTT4 | 19 |
| | OLD SEQ N/A UNFMTD R | | |
| 70 | ./rgmk2-anschlag_schelde_fem1_sim1-non-lin_test.f56 | F56 | 56 |
| | UNKNOWN SEQ N/A FMTD | | |
| 71 | .../rgmk2-anschlag_schelde_fem1_sim1-non-lin_test.T12128_56. | SF1 | 93 |
| | OLD SEQ N/A UNFMTD T | | |
| 72 | .../rgmk2-anschlag_schelde_fem1_sim1-non-lin_test.T12128_56. | SF2 | 94 |
| | OLD SEQ N/A UNFMTD TR | | |
| 73 | ./rgmk2-anschlag_schelde_fem1_sim1-non-lin_test.s200tmp | S200 | 112 |
| | UNKNOWN SEQ N/A UNFMTD T | | |
| 74 | advnlin.op2 | OUTPUT2 | 21 |
| | OLD SEQ N/A UNFMTD A | | |
| 75 | ./rgmk2-anschlag_schelde_fem1_sim1-non-lin_test.pch | PUNCH | 7 |
| | OLD SEQ N/A FMTD | | |
| 76 | ./rgmk2-anschlag_schelde_fem1_sim1-non-lin_test.xdb | DBC | 40 |
| | UNKNOWN DIRECT 1024 UNFMTD | | |
| 77 | ./rgmk2-anschlag_schelde_fem1_sim1-non-lin_test.asm | ASSEM | 16 |
| | OLD SEQ N/A FMTD | | |

```

78
79 FLAG VALUES ARE --
80 A FILE HAS BEEN DEFINED BY AN 'ASSIGN' STATEMENT
81 D FILE IS TO BE DELETED BEFORE RUN, IF IT EXISTS
82 R FILE IS READ-ONLY
83 T FILE IS TEMPORARY AND WILL BE DELETED AT END OF RUN
84

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85 ** PHYSICAL FILES LARGER THAN 2GB ARE SUPPORTED ON THIS PLATFORM
86

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87 0 ** MASTER DIRECTORIES ARE LOADED IN MEMORY.
88 USER OPENCORE (HICORE) = 1159279707 WORDS
89 EXECUTIVE SYSTEM WORK AREA = 316925 WORDS
90 MASTER (RAM) = 44456 WORDS
91 SCRATCH (MEM) AREA = 3276900 WORDS ( 100 BUFFERS)
92 BUFFER POOL AREA (GINO/EXEC) = 1671729 WORDS ( 51 BUFFERS)
93 TOTAL OPEN CORE MEMORY = 1164589717 WORDS
94 TOTAL DYNAMIC MEMORY = 10431821163 WORDS
95
96 TOTAL NX NASTRAN MEMORY LIMIT = 11596410880 WORDS
97
98

```

| 99 | Day_Time | Elapsed | I/O_Mb | Del_Mb | CPU_Sec | Del_CPU | SubDMAP | Line |
|-----|----------|----------------|--------|--------|---------|---------|---------|------|
| 100 | (S) | SubDMAP/Module | | | | | | |
| 101 | 19:29:59 | 0:00 | 74.0 | 6.0 | 0.0 | 0.0 | XSEMDR | BGN |

| | | | | | | | | |
|-----|----------------------|---------------|-------------|----------------------|---------------|----------------------|--------|---------|
| 102 | 19:29:59 | 0:00 | 76.0 | 2.0 | 0.0 | 0.0 | SOL601 | 54 |
| | IFP1 | BEGN | | | | | | |
| 103 | 19:29:59 | 0:00 | 76.0 | 0.0 | 0.0 | 0.0 | SOL601 | 71 |
| | XSORT | BEGN | | | | | | |
| 104 | 1 | | | | | | | |
| 105 | MACHINE | | | MODEL | | OPERATING SYSTEM | | NX |
| | Nastran | BUILD DATE | | RUN DATE | | | | |
| 106 | Intel64 Family 6 Mod | | | Intel(R) Xeon(R) CPU | | Windows 7 SP1 Servic | | |
| | VERSION 12.0.1 | JAN 24, 2018 | | SEP 18, 2018 | | | | |
| 107 | | | | | | | | |
| 108 | | | | | | | | |
| 109 | 19:30:04 | 0:05 | 911.0 | 835.0 | 5.2 | 5.2 | SOL601 | 71 |
| | XSORT | END | | | | | | |
| 110 | 19:30:05 | 0:06 | 1364.0 | 453.0 | 5.7 | 0.5 | SOL601 | 87 |
| | (S) IFPS | BEGN | | | | | | |
| 111 | 19:30:05 | 0:06 | 1364.0 | 0.0 | 5.7 | 0.0 | IFPS | 30 |
| | IFP | BEGN | | | | | | |
| 112 | 19:30:05 | 0:06 | 1364.0 | 0.0 | 5.7 | 0.0 | IFP | |
| 113 | * | COUNT:ENTRY | | COUNT:ENTRY | | COUNT:ENTRY | | * |
| | COUNT:ENTRY | | COUNT:ENTRY | | COUNT:ENTRY | | | * |
| 114 | * | 38:BCRPARA | | 1:BCTADD | | 4:BCTPARA | | * |
| | 4:BCTSET | | 38:BSURFS | | 14:CBAR | | | * |
| 115 | * | 20:CELAS1 | | 49066:CHEXA | | 5:CORD2C | | * |
| | 9:CORD2R | | 1777:CPENTA | | 222434:CTETRA | | | * |
| 116 | * | 40:FORCE | | 429688:GRID | | 9:MAT1 | | * |
| | 7:MATS1 | | 1:NXSTRAT | | 8:PARAM | | | * |
| 117 | * | 3:PBARL | | 2:PELAS | | 7:PSOLID | | * |
| | 40:RBE3 | | 801:SPC | | 1:SPCADD | | | * |
| 118 | * | 7:TABLES1 | | 1:TEMPD | | | | |
| 119 | * | PARAM: ALPHA1 | ALPHA2 | F56 | OIBULK | OMACHPR | POST | POSTEXT |
| | UNITSYS | | | | * | | | |
| 120 | 19:30:08 | 0:09 | 1645.0 | 281.0 | 8.8 | 3.2 | IFPS | 30 |
| | IFP | END | | | | | | |
| 121 | 19:30:08 | 0:09 | 1645.0 | 0.0 | 8.8 | 0.0 | IFPS | 35 |
| | (S) TESTBIT | BEGN | | | | | | |
| 122 | 19:30:08 | 0:09 | 1646.0 | 1.0 | 8.8 | 0.0 | IFPS | 37 |
| | (S) TESTBIT | BEGN | | | | | | |
| 123 | 19:30:08 | 0:09 | 1646.0 | 0.0 | 8.8 | 0.0 | IFPS | 39 |
| | (S) TESTBIT | BEGN | | | | | | |
| 124 | 19:30:08 | 0:09 | 1646.0 | 0.0 | 8.8 | 0.0 | IFPS | 62 |
| | (S) TESTBIT | BEGN | | | | | | |
| 125 | 19:30:08 | 0:09 | 1646.0 | 0.0 | 8.8 | 0.0 | IFPS | 64 |
| | (S) TESTBIT | BEGN | | | | | | |
| 126 | 19:30:08 | 0:09 | 1646.0 | 0.0 | 8.8 | 0.0 | IFPS | 66 |
| | (S) TESTBIT | BEGN | | | | | | |
| 127 | 19:30:08 | 0:09 | 1646.0 | 0.0 | 8.8 | 0.0 | IFPS | 68 |
| | (S) TESTBIT | BEGN | | | | | | |
| 128 | 19:30:08 | 0:09 | 1646.0 | 0.0 | 8.8 | 0.0 | IFPS | 75 |
| | CHKPNL | BEGN | | | | | | |
| 129 | 19:30:08 | 0:09 | 1646.0 | 0.0 | 8.8 | 0.0 | IFPS | 76 |
| | DMIIN | BEGN | | | | | | |
| 130 | 19:30:08 | 0:09 | 1646.0 | 0.0 | 8.8 | 0.0 | IFPS | 87 |
| | DTIIN | BEGN | | | | | | |
| 131 | 19:30:08 | 0:09 | 1646.0 | 0.0 | 8.8 | 0.0 | IFPS | 172 |
| | IFP9 | BEGN | | | | | | |
| 132 | 19:30:08 | 0:09 | 1647.0 | 1.0 | 8.8 | 0.0 | IFPS | 241 |
| | GP1LM | BEGN | | | | | | |
| 133 | 19:30:08 | 0:09 | 1647.0 | 0.0 | 8.8 | 0.0 | IFPS | 242 |
| | GP1 | BEGN | | | | | | |
| 134 | 19:30:08 | 0:09 | 2376.0 | 729.0 | 9.3 | 0.5 | IFPS | 366 |
| | GP7 | BEGN | | | | | | |
| 135 | 19:30:08 | 0:09 | 2377.0 | 1.0 | 9.3 | 0.0 | SOL601 | 93 |
| | GP1 | BEGN | | | | | | |
| 136 | 19:30:09 | 0:10 | 2575.0 | 198.0 | 9.6 | 0.3 | SOL601 | 93 |
| | GP1 | END | | | | | | |
| 137 | 19:30:09 | 0:10 | 2576.0 | 1.0 | 9.6 | 0.0 | SOL601 | 117 |
| | OUTPUT2 | BEGN | | | | | | |
| 138 | 19:30:30 | 0:31 | 2815.0 | 239.0 | 30.8 | 21.2 | SOL601 | 117 |
| | OUTPUT2 | END | | | | | | |
| 139 | 19:30:30 | 0:31 | 2816.0 | 1.0 | 30.8 | 0.0 | SOL601 | 118 |
| | OUTPUT2 | BEGN | | | | | | |
| 140 | 19:30:30 | 0:31 | 2816.0 | 0.0 | 30.8 | 0.0 | SOL601 | 121 |
| | FORTIO | BEGN | | | | | | |

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141 19:30:30 0:31 2816.0 0.0 30.8 0.0 SOL601 140
(S)GETBITS BEGN
142 19:30:30 0:31 2817.0 1.0 30.8 0.0 SOL601 148
OUTPUT2 BEGN
143 19:30:30 0:31 2817.0 0.0 30.8 0.0 SOL601 151
OUTPUT2 BEGN
144 19:30:33 0:34 3050.0 233.0 34.3 3.5 SOL601 151
OUTPUT2 END
145 19:30:33 0:34 3098.0 48.0 34.3 0.0 SOL601 157
OUTPUT2 BEGN
146 19:30:33 0:34 3098.0 0.0 34.3 0.0 SOL601 159
(S)OUT2GEOMBEGN
147 19:30:33 0:34 3099.0 1.0 34.3 0.0 OUT2GEO72
OUTPUT2 BEGN
148 19:30:33 0:34 3109.0 10.0 34.4 0.1 OUT2GEO73
OUTPUT2 BEGN
149 19:30:34 0:35 3133.0 24.0 34.7 0.3 OUT2GEO73
OUTPUT2 END
150 19:30:34 0:35 3133.0 0.0 34.7 0.0 OUT2GEO74
OUTPUT2 BEGN
151 19:30:34 0:35 3134.0 1.0 34.7 0.0 OUT2GEO75
OUTPUT2 BEGN
152 19:30:34 0:35 3134.0 0.0 34.7 0.0 OUT2GEO76
OUTPUT2 BEGN
153 19:30:35 0:36 3206.0 72.0 35.5 0.9 OUT2GEO76
OUTPUT2 END
154 19:30:35 0:36 3206.0 0.0 35.5 0.0 OUT2GEO80
OUTPUT2 BEGN
155 19:30:35 0:36 3207.0 1.0 35.5 0.0 OUT2GEO82
OUTPUT2 BEGN
156 19:30:35 0:36 3207.0 0.0 35.5 0.0 SOL601 167
ISHELL BEGN
157 *** USER INFORMATION MESSAGE 7362 (DOIT)
158 THE COMPLETE ISHELL COMMAND IS: "C:\PLM\NXNastran12\bin\nxna.bat" 0 3 0 0 0 0
159 79588 451 0 0 -1.000000000 -1.000000000 -1.000000000
160 -1.000000000 -1.000000000 0.000000000 -1.000000000 0.000000000 -1.000000000
161 0.000000000 -1.000000000 0.000000000 "nullnull" "nullnull" "n
162 ullnull" "nullnull" 0 0 0 0 " " " " " " " "
163 19:31:50 1:51 3207.0 0.0 35.5 0.0 SOL601 167
ISHELL END
164 19:31:50 1:51 3208.0 1.0 35.5 0.0 SOL601 523
(S)PRTSUM BEGN
165 19:31:50 1:51 3208.0 0.0 35.5 0.0 SOL601 524
EXIT BEGN

```

*** PARALLEL PROCESSES CPU INFORMATION (SECONDS) ***

```

166
167
168 MODULE          PROCESS-1      PROCESS-2      PROCESS-3      PROCESS-4      PROCESS-5
169 PROCESS-6      PROCESS-7      PROCESS-8
170 -----
171 =====
172 =====
173 =====
174 MODULE          PROCESS- 9     PROCESS-10    PROCESS-11    PROCESS-12    PROCESS-13
175 PROCESS-14     PROCESS-15    PROCESS-16
176 -----
177 =====
178 =====
179 =====
180 MODULE          PROCESS-17    PROCESS-18    PROCESS-19    PROCESS-20    PROCESS-21
PROCESS-22     PROCESS-23    PROCESS-24
-----
=====
=====
MODULE          PROCESS-25    PROCESS-26    PROCESS-27    PROCESS-28    PROCESS-29
PROCESS-30     PROCESS-31    PROCESS-32
-----
=====
=====
MODULE          PROCESS-33    PROCESS-34    PROCESS-35    PROCESS-36    PROCESS-37

```

```

181 PROCESS-38      PROCESS-39      PROCESS-40
-----
182 =====
183 MODULE        PROCESS-41      PROCESS-42      PROCESS-43      PROCESS-44      PROCESS-45
184 PROCESS-46     PROCESS-47      PROCESS-48
-----
185 =====
=====

```

```

186
187 *** SYSTEM WARNING MESSAGE 6299 (PARCPU)
188     NO PARALLEL PROCESS CREATED
189

```

```

190 *** TOTAL MEMORY AND DISK USAGE STATISTICS ***
191

```

```

192 +----- SPARSE SOLUTION MODULES -----+          +----- MAXIMUM
DISK USAGE -----+
193   HIWATER          SUB_DMAP          DMAP          HIWATER
194   SUB_DMAP          DMAP
   (WORDS)          DAY_TIME          NAME          MODULE          (MB)
195   DAY_TIME          NAME          MODULE
      0   19:29:59   PREFACE   0   PREFACE          994.688   19:31:50
      SOL601   524   EXIT

```

```

196
197
198 *** DATABASE USAGE STATISTICS ***
199

```

```

200 +----- LOGICAL DBSETS -----+          +-----
DBSET FILES -----+
201 DBSET          ALLOCATED          BLOCKSIZE          USED          USED          FILE          ALLOCATED
   HIWATER          HIWATER          I/O TRANSFERRED
202   (BLOCKS)          (BLOCKS)          (WORDS)          (BLOCKS)          %          (BLOCKS)
      (BLOCKS)          (MB)          (GB)
203
204 MASTER          5000          32768          56          1.12          MASTER
   5000          56          14.000          0.048
205 DBALL          2000000          32768          1060          0.05          DBALL
   2000000          1060          265.000          0.549
206 OBJSCR          5000          8192          19          0.38          OBJSCR
   5000          19          1.188          0.003
207 SCRATCH          4000100          32768          11          0.00          (MEMFILE)
   100          100          25.000          0.000)
208
   SCRATCH
   2000000          2764
   691.000          2.044
209   SCR300
   2000000          656
   164.000          0.458

```

```

210
211 =====
212 TOTAL:          3.101

```

```

213 *** BUFFER POOL AND SCRATCH 300 USAGE STATISTICS ***
214

```

```

215 +----- BUFFER POOL -----+          +-----
SCRATCH 300 -----+
216 OPTION          BLOCKS          BLOCKS          BLOCKS          OPTION
   HIWATER          SUB_DMAP          DMAP          OPN/CLS
217 SELECTED          ALLOCATED          REUSED          RELEASED          SELECTED          (BLOCKS)
   DAY_TIME          NAME          MODULE          COUNTER
218 GINØ, EXEC          51          387          12398          2          656
   19:30:04          SOL601          71   XSORT          1

```

```

219
220
221 *** SUMMARY OF PHYSICAL FILE I/O ACTIVITY ***
222

```

```

223 ASSIGNED PHYSICAL FILE NAME          RECL (BYTES)
224 READ/WRITE COUNTS          WSIZE (WNUM)          MAP-I/O CNT
-----
-----

```

| | | |
|-----|--|--------|
| 225 | ...anschlag_schelde_fem1_sim1-non-lin_test.T12128_56.SCRATCH | 262144 |
| | 4661/3711 N/A N/A | |
| 226 | ...-anschlag_schelde_fem1_sim1-non-lin_test.T12128_56.OBJSCR | 65536 |
| | 13/28 N/A N/A | |
| 227 | ...-anschlag_schelde_fem1_sim1-non-lin_test.T12128_56.MASTER | 262144 |
| | 53/143 N/A N/A | |
| 228 | ...2-anschlag_schelde_fem1_sim1-non-lin_test.T12128_56.DBALL | 262144 |
| | 1169/1081 N/A N/A | |
| 229 | ...-anschlag_schelde_fem1_sim1-non-lin_test.T12128_56.SCR300 | 262144 |
| | 1035/842 N/A N/A | |
| 230 | c:/plm/nxnastran12/nxn12p01/em64tntl/SSS.MASTERA | 65536 |
| | 84/0 N/A N/A | |
| 231 | c:/plm/nxnastran12/nxn12p01/em64tntl/SSS.MSCOBJ | 65536 |
| | 19/0 N/A N/A | |
| 232 | | |
| 233 | | |