```
Category            Resource Shortage
Runtime Errors      MEMORY_NO_MORE_PAGING
Date and Time
```

```
Short text
    SAP paging overflow when storing data in the ABAP/4 memory.
```

```
What happened?
    The current program requested storage space from the SAP paging area,
    but this request could not be fulfilled.
    of this area in the SAP system profile.
```

```
What can you do?
    Note which actions and input led to the error.

    For further help in handling the problem, contact your SAP administrator
    .

    You can use the ABAP dump analysis transaction ST22 to view and manage
    termination messages, in particular for long term reference.
```

```
Error analysis
    The ABAP/4 runtime system and the ABAP/4 compiler use a common
    interface to store different types of data in different parts of
    the SAP paging area. This data includes the
    ABAP/4 memory (EXPORT TO MEMORY), the SUBMIT REPORT parameters,
    CALL DIALOG and CALL TRANSACTION USING, as well as internally defined
    macros (specified with DEFINE).

    To store further data in the SAP paging area, you attempted to
    allocate a new SAP paging block, but no more blocks were
    available.

    When the SAP paging overflow occurred, the ABAP/4 memory contained
    entries for 9 of different IDs.

    Please note:
    To facilitate error handling, the ABAP/4 memory was
    deleted.
```

```
System environment
    SAP Release.....
    SAP Basis Level.

    Application server... "            "
    Network address...... "          "
    Operating system..... "'         "
    Release.............. "   "
    Hardware type........ "            "
    Character length.... 16 Bits
    Pointer length....... 64 Bits
    Work process number.. 26
    Shortdump setting.... "full"

    Database server... "           "
    Database type..... "     "
    Database name..... "   "
    Database user ID.. "   "

    Terminal......... " "
```

dev_w<nr> trace file:

M <timestamp>
*P *** ERROR => <PAGE-FL> get block: no more free blocks [rpag.c   2186]*
P {root-id=0050568B34FA1EE7B5BF70CD81FBC9B2}_{conn-id=0050568B34FA1EE7B5BF6D1C2C0B29B2}_1
*M ***LOG P0B=> 045000 [rpag.c   785]*

SAP Memory	Curr.Use %	CurUse[KB]	MaxUse[KB]	In Mem[KB]	OnDisk[KB]	SAPCurCach	HitRatio %
Page area	0.01	27	359,992	131,072	393,216	Statement	100.00
Extended memory	2.65	610,304	860,160	23,064,576	0		0.00
Heap memory		0	0	0	0		0.00

Category	Resource Shortage
Runtime Errors	TSV_TNEW_PAGE_ALLOC_FAILED
Date and Time	

Short Text

No more memory available to add rows to an internal table.

What happened?

An attempt was made to add rows to an internal table. There was no
memory available for this however.

What can you do?

Note which actions and entries caused the error to occur.

Consult your SAP administrator.

Using transaction ST22 for ABAP dump analysis, you can view, manage,
and retain termination messages for longer periods.
Try to find out (using specific data selection for example) whether the
transaction will run with less main memory.

If the problem is due to a temporary bottleneck, run the transaction
again.

If the error persists, ask your system administrator to check the
following profile parameters:

o ztta/roll_area   (1.000.000 - 15.000.000) classic roll area
per user and internal session o ztta/roll_extension   (10.000.000
- 500.000.000) available memory/user in extended memory
EM o ztta/max_memreq_MB maximum size of an individual memory request
(in MB) o abap/heap_area_total   (100.000.000 - 1.500.000.000)
available memory (malloc) for all users of an application server. If
several background processes are running on one server, temporary
bottlenecks can occur. Of course, the amount of memory (in bytes) must
also be available on the machine (main memory or file system swap).
Caution:
The operating system must be set up so that there is also enough memory
for each process. Usually, the maximum address space is too small.
Ask your hardware manufacturer or your competence center about this.

o abap/heap_area_dia: (10.000.000 - 1.000.000.000)
restriction of the memory that can be allocated to the heap with malloc
per dialog process.

Error analysis

No more rows could be added to internal table
  "\PROGRAM=███████████████████████". To make
troubleshooting possible, the table had to be deleted before this log
could be compiled. This means that the table will either be displayed
further down or, if you call the ABAP Debugger from here, with 0 rows.

When the program was terminated, the internal table had the following
characteristics:

Memory location: Session memory
Row width: 556
No. of rows: 10722972
Allocated rows: 10722972
Newly requested rows: 16 (in 1 blocks)

How to correct the error

The amount of memory (in bytes) used at termination time was:

    Roll area.....................
    Extended memory (EM) 4004146320
    Assigned memory (HEAP) 2003927408
    Short area....................
    Paging area...................
    Maximum address space.........
    If the error occurs in a non-modfied SAP program, you might be able to
    find a solution in the SAP Notes system. If you have access to the SAP
    Notes system, check there first using the following keywords:

```
System environment
    SAP Release.....
    SAP Basis level

    Application server...
    Network address......
    Operating system...
    Release.............
    Hardware type.......
    Character length..... 16 Bits
    Pointer length........ 64 Bits
    Work process number...
    Shortdump setting. full

    Database server...
    Database type.....
    Database name.....
    Database user ID

    Terminal.........
```

```
User and Transaction
    Client.................
    User.................
    Language key.........
    Transaction........
    Transaction ID......

    EPP whole context ID......
    EPP connection ID........
    EPP call counter........

    Program.............
    Screen.............
    Screen line.........
    Active debugger.....
```

```
Information on where terminated
    The termination occurred in ABAP program "[        ]", in
    "[                    ]". The main program
    was "[      ]".
```

#scenario 1

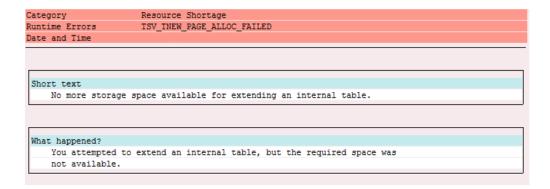dev_w<nr> trace file:
  M <timestamp>
  A SelMemClass: heap quota (DIA) exceeded 2000000000 2002751168

dev_w<nr> trace file:
  M <timestamp>
  A SelMemClass: heap quota (NONDIA) exceeded 2000000000 2002751168

#scenario 2

```
Category            Resource Shortage
Runtime Errors      TSV_TNEW_PAGE_ALLOC_FAILED
Date and Time
```

```
Short text
    No more storage space available for extending an internal table.
```

```
What happened?
    You attempted to extend an internal table, but the required space was
    not available.
```

```
Error analysis
    The internal table "███████████████████" could not be further
     extended. To enable
    error handling, the table had to be delete before this log was written.
    As a result, the table is displayed further down or, if you branch to
    the ABAP Debugger, with 0 rows.

    At the time of the termination, the following data was determined for
    the relevant internal table:

    Memory location: "Session memory"
    Row width: 338
    Number of rows: 181212
    Allocated rows: 181212
    Newly requested rows: 32 (in 1 blocks)
    Last error logged in SAP kernel

    Component........... "EM"
    Place............... "SAP-Server ████████_██ on host ████████ (wp
     █)"
    Version............. 37
    Error code.......... 7
    Error text.......... "Warning: EM-Memory exhausted: Workprocess gets PRIV "
    Description......... " "
```

dev_w<nr>:
  M <timestamp>
  A Wed Aug 02 13:10:00 2017
  A *** ERROR => User <USERNAME>   reached avail. heapsize = 2000 MB: see
ST22 [abstor.c   1904]
  A *** ERROR => Increase abap/heap_area_total [abstor.c   1905]

  A *** ERROR => heap memory WP0: 453 MB [abstor.c   1909]
  A *** ERROR => heap memory WP8: 31 MB [abstor.c   1909]
  A *** ERROR => heap memory WP21: 245 MB [abstor.c   1909]
  A *** ERROR => heap memory WP29: 301 MB [abstor.c   1909]
  A *** ERROR => heap memory WP37: 945 MB [abstor.c   1909]
  A *** ERROR => heap memory WP45: 24 MB [abstor.c   1909]

```
Category                Resource Shortage
Runtime Errors          LOAD_NO_ROLL
Date and Time
```

```
Short Text
    No roll storage available when loading a program.
```

```
What happened?
    Each transaction requires some main memory space to process application
    data. If the operating system does not have any more memory, the
    transaction is terminated.
```

```
Error analysis
    This is probably due to a very large dataset, for which there are
    insufficient resources in your installation.
    When loading a program, 193536 bytes of storage space was
    needed, but this was not available.
    Last error logged in SAP kernel

    Component........... EM
    Location.......... SAP-Server ███████████    on host ███████  (wp ██)
    Version............. 37
    Error code.......... 7
    Error text........... Warning: EM-Memory exhausted:  Workprocess gets PRIV
    Description...........
    System call.........
    Module.............
    Line...............
    The error reported by the operating system is: Error number.....
    Error text....... " "
```

ST02:

SAP Memory	Curr.Use %	CurUse[KB]	Max.Use[KB]	In Mem[KB]	OnDisk[KB]	SAPCurCach	HitRatio %
Page area	0.10	814	639,720	131,072	655,360	Statement	99.00
Extended memory	92.92	33,300,480	35,835,904	35,835,904	0		0.00
Heap memory		456,948	39,653,839	0	0		0.00