

Oasys Shell 9.3

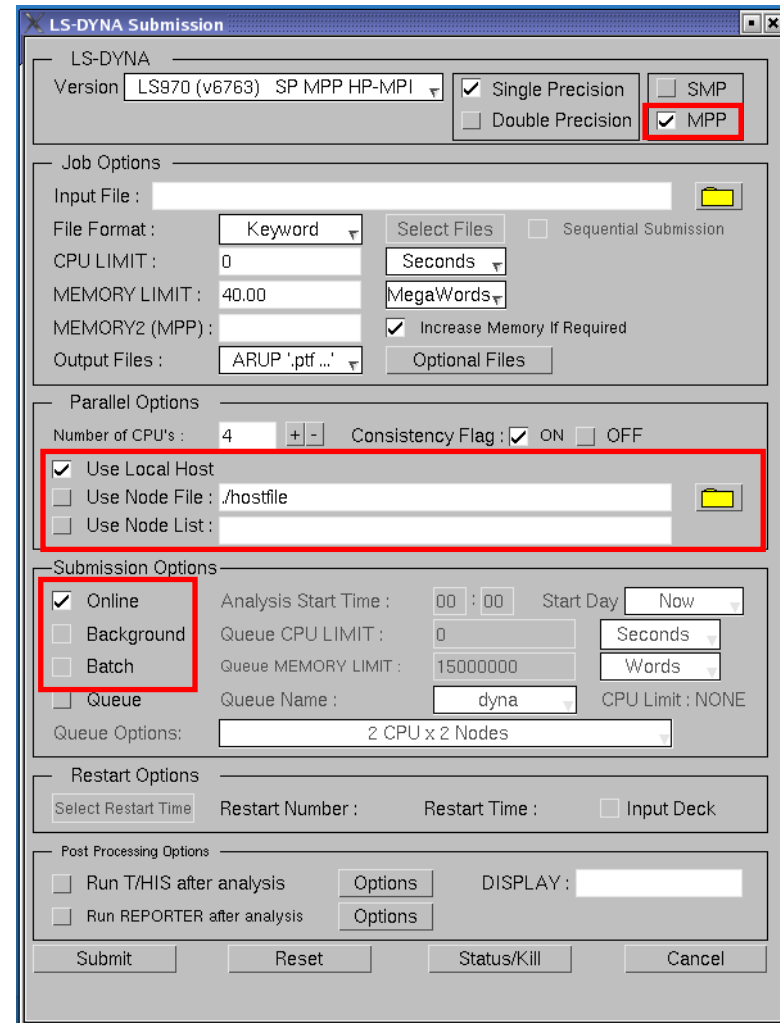
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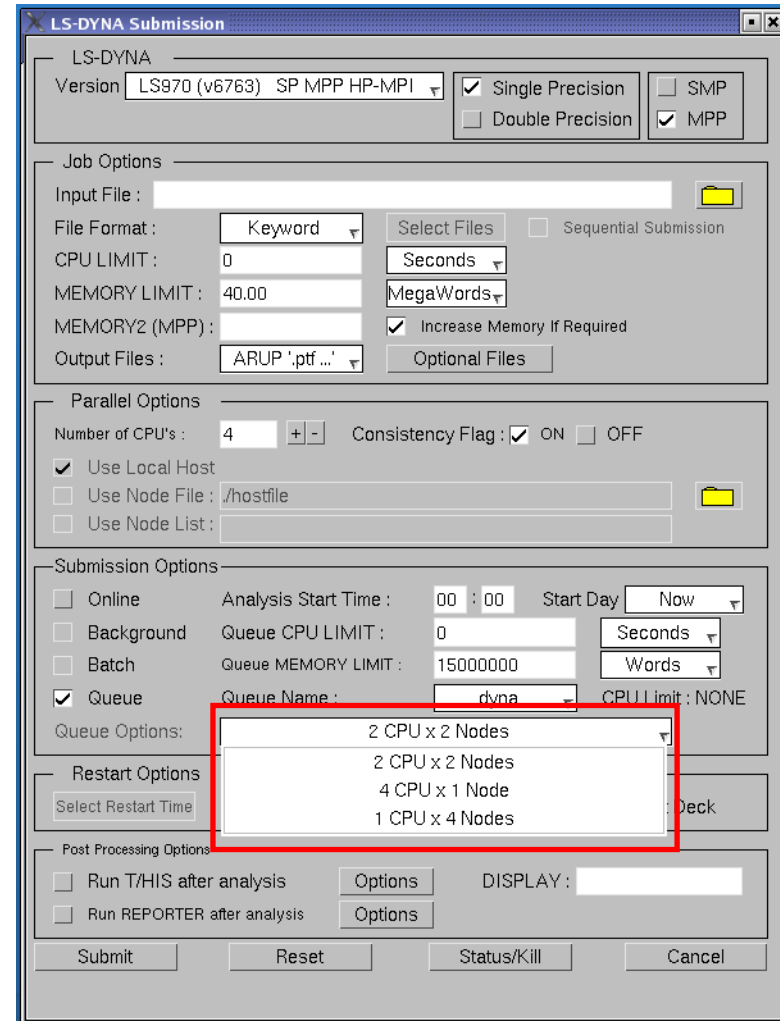
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- If MPP and either Online, Background or Batch submission are selected, the Nodes and CPUs to run the analysis on can be specified:
 - Local Host - use the machine the shell is being run on
 - Node File - specify a file containing a list of Nodes and CPUs to use
 - Node List - specify a string containing a list of Nodes and CPUs to use



- If Queue submission is selected the number of CPUs and Nodes to use can be selected
- Options are defined in the 'oasys_queue' file
- If no options are defined the default commands produced by the Shell are used



- The 'oasys_queue' file lists queues and queue directives
- It contains three distinct blocks of data:
 - Block 1 defines queue names, their cpu limit and directives specific to that queue.
 - Block 2 defines queue directives for different CPU and Node combinations.
 - Block 3 defines queue directives that apply to all queues

\$ Contains 1 queue definition "dyna"
 \$ submit commands for 1,2,4 and 8 CPU's to a PBS queuing system

```
<queue_names>
<dyna>
  cpu_limit="none"
</dyna>
</queue_names>
```

Block 1

```
<queue_commands>
<dyna>
<1>
  display_string="1 CPU x 1 Node"
  command="#PBS -l nodes=1:ppn=1:dyna"
</1>
<2>
  display_string="2 CPU x 1 Node"
  command="#PBS -l nodes=1:ppn=2:dyna"
</2>
<2>
  mpp_only
  display_string="1 CPU x 2 Nodes"
  command="#PBS -l nodes=1:ppn=2:dyna"
</2>
<4>
  mpp_only
  display_string="2 CPU x 2 Nodes"
  command="#PBS -l nodes=2:ppn=2:dyna"
</4>
<8>
  mpp_only
  display_string="2 CPU x 4 Nodes"
  command="#PBS -l nodes=4:ppn=2:dyna"
</8>
</dyna>
</queue_commands>
```

Block 2

```
<all_queue_commands>
  command="#PBS -m abe"
</all_queue_commands>
```

Block 3

- The 'dyna_versions' file has an extra column to identify which MPI library the versions have been compiled with

```

$ 970 - 6763
SMP Double "P:\Dyna_executables\Dyna_970_6763\ls970_d_6763_win32_p.exe"
SMP Single "P:\Dyna_executables\Dyna_970_6763\ls970_s_6763_win32_p.exe"
MPP Double "P:\Dyna_executables\Dyna_970_6763\mpp970_d_6763_Intelsse_win32_mpich125.exe"
MPP Single "P:\Dyna_executables\Dyna_970_6763\mpp970_s_6763_Intelsse_win32_mpich125.exe"
$ 970 - 5434a
SMP Double "P:\Dyna_executables\Dyna_970_5434a\ls970_d_5434a_win32_p.exe"
SMP Single "P:\Dyna_executables\Dyna_970_5434a\ls970_s_5434a_win32_p.exe"
MPP Double "P:\Dyna_executables\Dyna_970_5434a\mpp970_d_5434a_win32.exe"
MPP Single "P:\Dyna_executables\Dyna_970_5434a\mpp970_s_5434a_win32.exe"
$ 970 - 5434
SMP Double "P:\Dyna_executables\Dyna_970_5434\ls970_d_5434_win32_p.exe"
SMP Single "P:\Dyna_executables\Dyna_970_5434\ls970_s_5434_win32_p.exe"
MPP Double "P:\Dyna_executables\Dyna_970_5434\mpp970_d_5434_win32.exe"
MPP Single "P:\Dyna_executables\Dyna_970_5434\mpp970_s_5434_win32.exe"
    
```

	Win32 DP LS970v6763
	Win32 SP LS970v6763
MPICH	Win32 DP LS970v6763 (MPICH)
MPICH	Win32 SP LS970v6763 (MPICH)
	Win32 DP LS970v5434(a)
	Win32 SP LS970v5434(a)
MPICH	Win32 DP LS970v5434(a) (MPICH)
MPICH	Win32 SP LS970v5434(a) (MPICH)
	Win32 DP LS970v5434
	Win32 SP LS970v5434
MPICH	Win32 DP LS970v5434 (MPICH)
MPICH	Win32 SP LS970v5434 (MPICH)

- On UNIX systems a command line version of the submission shell is available
- It will start automatically if an X-connection cannot be established
- It can be started manually using the command 'oasys_93 cmd'

```

Options
----- LS-DYNA -----
(1) Code Version          LS970 (v6763)   SP SMP RHE 3.0

----- Job Options -----
(2) Input File           *** Nothing Selected ***
(3) Format                Keyword
(4) CPU Limit            0.00 Seconds
(5) Memory Limit         Memory1 40.00 Mwords
(6) Increase Memory If Required  On
(7) Filename Format       Arup '.ptf ...'
(8) Optional Files

----- Parallel Options -----
(9) CPUs                 2 CPUs, Consistency Flag On

----- Submission Options -----
(11) Submission Type     Queue, Now 00:00
(12) Queue CPU Limit     0.00 Seconds
(13) Queue Memory Limit  Memory 15000000.00 Words
(14) Queue Name          dyna, CPU Limit: 0
(15) Queue Options       2 CPU x 1 Node

(99) Submit      (88) Reset      (77) Status/Kill      (-1) Quit

```



ARUP

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