How to suspend and resume simulation runs in ADE XL?

How To
You are running simulation using ADE XL environment. While running resource-intensive simulations, if sufficient disk space is not available, you would like to suspend simulations, clean up disk space, and resume them for completion. How can you do this?

Answer
Starting with IC616ISR12 (or ICADV121ISR14), ADE XL supports suspending and resuming simulation runs.

A resource-intensive simulation run might fail when sufficient disk space is not available. In such cases, you do not need to cancel the run. You can suspend one or all of the running simulations, clean up the disk, and resume those for completion.

To suspend a simulation, right-click on its progress bar in the Run Summary pane and click Suspend.

The status of that simulation appears as Suspended, as shown below.
When you need to resume the simulation, right-click on its progress bar and click Resume. To suspend and resume all the simulations, right-click on the progress bar for any of the runs and use the Suspend All and Resume All commands.

**Important Points to Note**

(1) You cannot suspend a simulation when the “continuelCRPRunOnAbruptGUIExit” environment variable is set to t.

(2) When you suspend a simulation, the status of its points on the Results tab appears as suspended.

(3) Icons of the jobs allocated for the suspended simulation run appear as paused. Their tooltips also show the time since when they are in the suspended state.

(4) Starting from MMSIM 14.1 ISR8, Spectre automatically suspends simulations if the disk space is low. ADE XL also updates the status of the simulation runs and the icons of the suspended jobs to indicate their status. After cleaning up the disk space, you can resume simulations. However, note that if you have chosen to optimize the single point run by selecting the Optimize Single Point Run check box on the Job Policy form, ADE XL fails to update the status of the job icon to reflect the suspended runs.

(5) The commands to suspend and resume simulations are not available when you have these two settings on the "Job Policy Setup" form:

   - The Optimize Single Point Run check box is selected
   - OR
   - Distribution Method=Command

**Suspending or Resuming Simulations From a DRMS**
When the simulations are running in a DRMS, if you need to preempt any simulation to manage the resources, send the SIGTSTP signal to the ICRP process. The signal is then sent to the Spectre process spawned by that ICRP to suspend the simulation and release the license. To retrieve the license and resume simulation, send the SIGCONT signal to that ICRP process.

Note: When suspended, Spectre will release the license only if it is called with the +lsuspend option. If +lsuspend is not used, Spectre will suspend the simulation, but the license will not be released.

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