Multiple Meshes in S-ALE

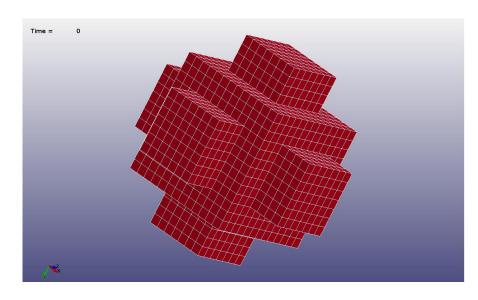
Hao Chen

Multiple Meshes: Merged (Same PID)

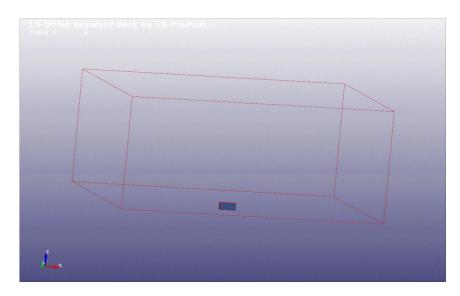
- Multiple *ALE_STRUCTURED_MESH cards; using SAME PartID to merge meshes.
- Nodes merged; Connectivity modified; MPP sharing updated; all automated.

*ALE_STRUCTURED_MESH					
MSHID	PID	NBID	EBID		
1	1001	10001	10001		
CPIDX	CPIDY	CPIDZ	NID0	LCSID	
1001	1002	1003	101	123	

*ALE_STRUCTURED_MESH					
MSHID	PID	NBID	EBID		
2	1001	50001	50001		
CPIDX	CPIDY	CPIDZ	NID0	LCSID	
2001	2002	2003	101	123	







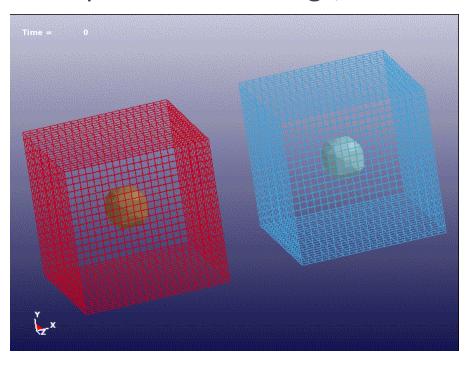
Soil & HE (bottom) needs a much smaller mesh box than air.. 6 million elements reduced to 4 million.

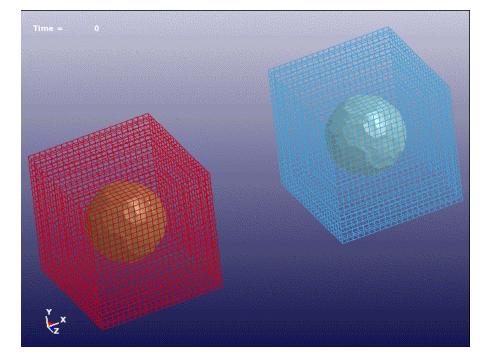
Multiple Meshes: Independent (Different PIDs)

*ALE_STRUCTURED_MESH					
MSHID	PID	NBID	EBID		
1	1001	10001	10001		
CPIDX	CPIDY	CPIDZ	NID0	LCSID	
1001	1002	1003	101	123	

*ALE_STRUCTURED_MESH				
MSHID	PID	NBID	EBID	
2	2001	50001	50001	
CPIDX	CPIDY	CPIDZ	NID0	LCSID
2001	2002	2003	201	123

Two pressurized airbags, each inside an independent S-ALE mesh.





Contact between bags DISABLED

Contact between bags ENABLED