

1 Block Structured Input

Table 1. QPAC Blocks

Block	Common Parent Block(s)	Use	Reference Section(s)
BOUNDARY	INTERFACES	Includes details of a boundary.	
COMPARTMENT	COMPARTMENTS	Includes input relevant to a specified compartment.	
COMPARTMENTS	SUBSYSTEM	Includes details of the compartments in a subsystem.	
COMPARTMENT_INPUT	REGION	Includes input for compartment(s) in the region.	
CONNECT	GRID	Employed to connect two grid sections or a grid section to a compartment.	
CONTROLS	QPAC	Contains input control parameters.	
DESCRIPTION	MODULE_DEFINITION	Provides a description of a module.	
ECHO	MODULE_DEFINITION	Information about a module that will be echoed to the log file.	
EXTERNAL	QPAC, SUBSYSTEM, USER_MODEL	Reads in data from file and converts it to QPAC syntax.	
GRID	SUBSYSTEM	Used to specify a grid of compartments and interfaces.	
INDEXLIST	QPAC, SUBSYSTEM, USER_MODEL	Used to specify an indexlist.	
INTERFACE	INTERFACES	Includes details of a specified interface.	
INTERFACES	SUBSYSTEM, JOINER	Includes details of the interfaces in a subsystem.	
INTERFACE_INPUT	REGION	Includes input for interface(s) in the region.	
JOINER	QPAC	Used to join sub-systems.	
MODULE	SUBSYSTEM	Used to load a module.	
MODULE_DEFINITION	-	Used to make a user model available in the form of a module.	
OUTPUTS	QPAC, SUBSYSTEM	Used to specify output quantities.	

Block	Common Parent Block(s)	Use	Reference Section(s)
QPAC	-	Contains all the input file.	
REGION	SECTION_CARTESIAN, SECTION_CYLINDRICAL	Employed to specify a region of a grid.	
RESTART_SAVE_TIMES	SOLVER	Contains output time details for a planned restart file.	
SECTION_CARTESIAN	GRID	Employed to specify a Cartesian grid of compartments and interfaces.	
SECTION_CYLINDRICAL	GRID	Employed to specify a cylindrical grid of compartments and interfaces.	
SOLVER	QPAC	Contains details of solver controls.	
SUBSYSTEM	QPAC	Used to specify a subsystem.	
TOUCHED	INTERFACE, BOUNDARY (within a JOINER)	Employed to create and access boundary interfaces in subsystems that are connected with joiners. TOUCHED blocks are used in joiners to specify input to the models in the subsystems that are connected by the joiner.	
UNITS	QPAC, SUBSYSTEM, USER_MODEL	Used to specify units.	
USER_MODEL	JOINER, MODULE_DEFINITION, SUBSYSTEM	Used to specify a process model.	
USER_MODEL_OVERRIDE	BOUNDARY, COMPARTMENT, COMPARTMENT_INPUT, INTERFACE, INTERFACE_INPUT	Used to modify how processes are represented in a User Model in a specified part of the system.	
VARIANT	VARIANTS	Used to specify a 'variant' compartment.	
VARIANTS	REGION	Used to introduce a collection of variant compartments.	

