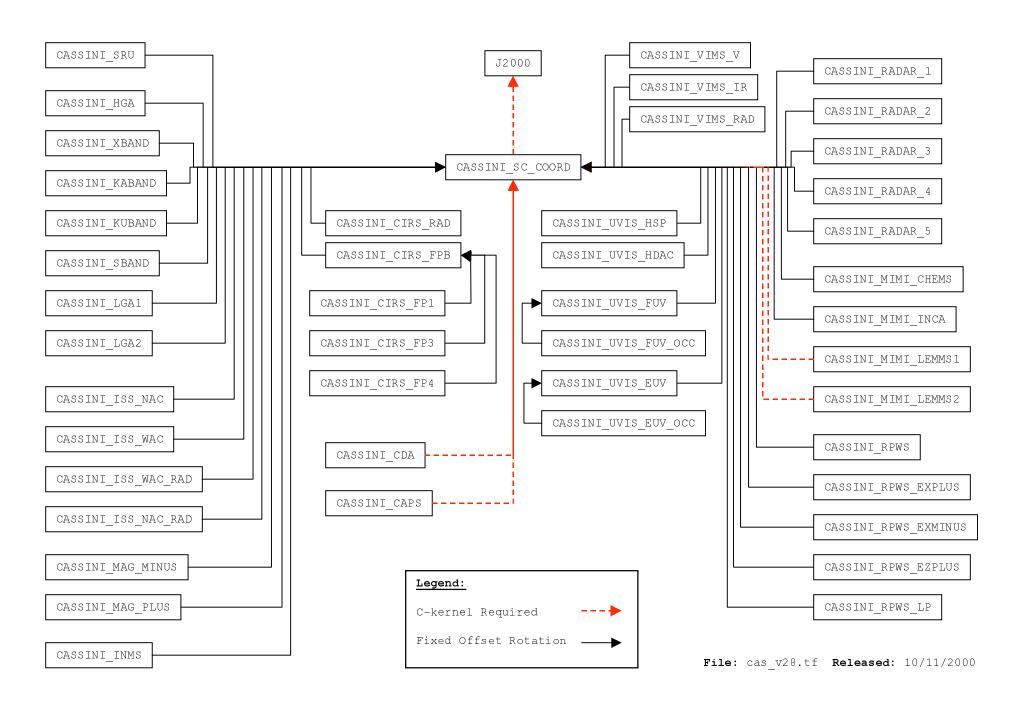
Cassini Frames Hierarchy



The Cassini Frames Hierarchy is a diagram describing the relationships between frames in the Cassini Frame Kernel. A less colorful version is provided in the frame kernel itself in the 'Cassini Frames Hierarchy' section of the kernel. The diagram illustrates with boxes the name of each frame defined in the kernel. The arrows leaving and arriving at the individual boxes illustrate transformations that are stored in the kernel. Consider the following piece of the diagram:



The frame 'CASSINI_SRU' is defined in the frames kernel relative to the 'CASSINI_SC_COORD' frame. The arrow used to connect these two frames is solid, black and leaves 'CASSINI_SRU' and arrives at 'CASSINI_SC_COORD'. As the legend indicates, the solid black arrow describes a fixed offset rotation. The direction of the arrow is significant, as it illustrates that the transformation defined in the kernel takes vectors from the 'CASSINI_SRU' frame and rotates them into the 'CASSINI_SC_COORD' frame.

The dashed red arrows indicate C-kernel based frame transformations defined in the project frame kernel. In the above example, to transform vectors from the 'CASSINI_SC_COORD' frame to 'J2000' requires data from a C-kernel at the epoch or epochs of interest.