Hello guys, my name is Adam. Today my topic is the explosion of the rocket Ariane 5. In 1996, the maiden flight of the Ariane 5 launcher ended in a failure. Only about 40 seconds after initiation of the flight sequence, the launcher veered off its flight path, broke up and exploded.

. The failure of the Ariane was caused by the complete loss of guidance and information after starting the main engine. In detail, it has a software problem in the inertial reference system. It said that Specifically a 64-bit floating-point number relating to the horizontal velocity of the rocket with respect to the platform was converted to a 16-bit signed integer. It has microstructure noise, since they have a problem in transition of 64 bit to 16 bits. The miscommunication makes the data become really mess which cause the Ariane 5 in ruins.