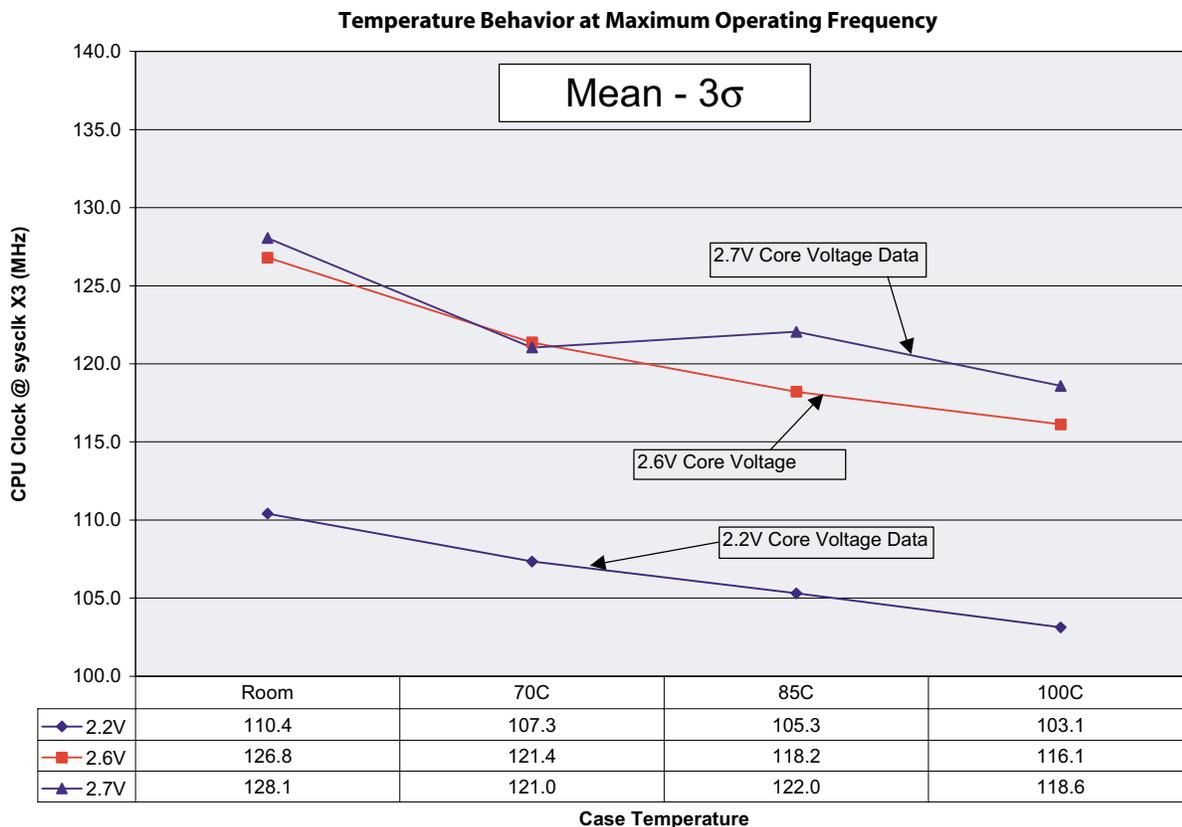


ZFx86 Case Temperature Characterization

ZF Micro Devices has extensively characterized ZFx86 chip behavior over a range of temperature and core voltage settings. The characterization has shown that the device can be safely used at case temperatures up to and including +85C. At a maximum case temperature of +85C, the recommended maximum frequency where the device should be operated is 100MHz, with a core voltage setting of 2.5V +/- 5%.

The characterization also shows that some devices fail to run properly at core voltages in excess of 2.7V and with temperatures in excess of 85C, and that additional degradation of the maximum operating frequency takes place when these two parameters are exceeded.

The chart below shows the mean of data collected minus the 3 sigma variation at various core voltage and temperature settings.



Note: at 2.7V core voltage some of the devices did not operate. The data plotted is from those chips that ran at 100C.