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## 7.4 Multimedia Processing Use Cases

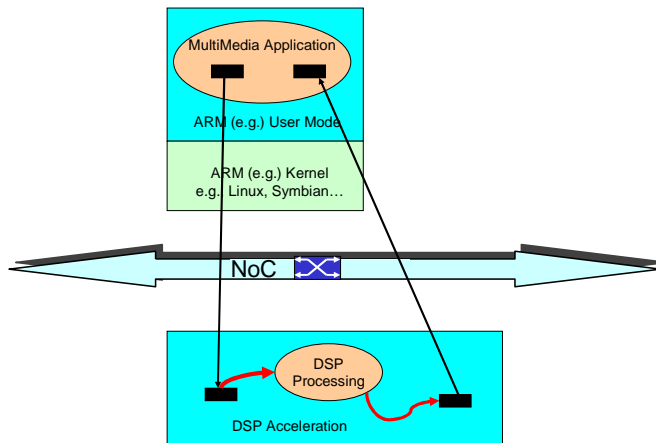
Multimedia processing includes coding and decoding between various audio and video formats. Applications range from low-power mobile devices such as cell phones, with limited resolution and audio quality, to set-top-boxes and HDTV with extremely demanding performance requirements.

The following will review some of the use cases and communications characteristics for the multimedia application domain.

### 7.4.1 Characteristics

#### 7.4.1.1 Simple Scenario

Figure 1 is a simple illustration of a multicore multimedia architecture. In this scenario, a multicore processor is executing a multimedia application, which is accelerated by a DSP integrated in the multicore device. The application has some data (for example, a video frame encoded in the MPEG4 format), and uses the DSP to decode into an image suitable for display. The data is moved (at least conceptually) to the DSP, the DSP processing runs, and the data is moved back to the general purpose processor (GPP).



**Figure 3 - Simple Multimedia Scenario**