

```
struct FPGASampleControl{
```

```
    struct ADC Settings {
```

```
        float ADCResolution;
```

```
        double VoltagePGAGain;
```

```
        double CurrentPGAGain;
```

```
        SetSampleSize()
```

```
        SetADCSampleFrequency()
```

```
        SetPGAGain()
```

```
        CalculateADCFrequencyWord()
```

```
        StartSampling()
```

```
    };
```

ADC related  
variables

ADC related callback  
functions

```
    struct DAC Settings {
```

```
        float DACResolution;
```

```
        double CurrentRangeResistor;
```

```
        SetDACFrequency()
```

```
        SetRangeResistor()
```

```
        .....
```

```
        AutoRange()
```

```
    };
```

DAC related  
variables

DAC related callback  
functions

```
}SampleControl;
```