

FlyCapture 2.1 C Language API Programming Reference

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Data Structure Index

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Chapter 3

Data Structure Documentation

3.1 fc2AVIOption Struct Reference

Data Fields

- float frameRate
- unsigned int reserved [256]

3.1.1 Field Documentation

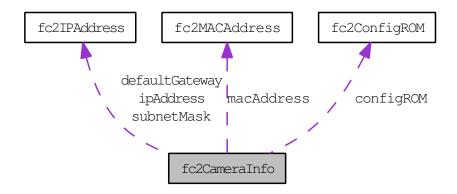
3.1.1.1 float frameRate

3.1.1.2 unsigned int reserved[256]

The documentation for this struct was generated from the following file:

3.2 fc2CameraInfo Struct Reference

Collaboration diagram for fc2CameraInfo:



Data Fields

- unsigned int serialNumber
- fc2InterfaceType interfaceType
- BOOL isColorCamera
- char modelName [MAX_STRING_LENGTH]
- char vendorName [MAX_STRING_LENGTH]
- char sensorInfo [MAX_STRING_LENGTH]
- char sensorResolution [MAX_STRING_LENGTH]
- char driverName [MAX_STRING_LENGTH]
- char firmware Version [MAX_STRING_LENGTH]
- char firmwareBuildTime [MAX_STRING_LENGTH]
- fc2BusSpeed maximumBusSpeed
- fc2BayerTileFormat bayerTileFormat
- unsigned int iidcVer
- fc2ConfigROM configROM
- unsigned int gigEMajorVersion
- unsigned int gigEMinorVersion
- char userDefinedName [MAX_STRING_LENGTH]
- char xmlURL1 [MAX_STRING_LENGTH]
- char xmlURL2 [MAX_STRING_LENGTH]
- fc2MACAddress macAddress
- fc2IPAddress ipAddress
- fc2IPAddress subnetMask
- fc2IPAddress defaultGateway
- unsigned int reserved [16]

3.2.1 Field Documentation

- 3.2.1.1 fc2BayerTileFormat bayerTileFormat
- 3.2.1.2 fc2ConfigROM configROM
- 3.2.1.3 fc2IPAddress defaultGateway
- 3.2.1.4 char driverName[MAX_STRING_LENGTH]
- 3.2.1.5 char firmwareBuildTime[MAX_STRING_LENGTH]
- 3.2.1.6 char firmwareVersion[MAX_STRING_LENGTH]
- 3.2.1.7 unsigned int gigEMajorVersion
- 3.2.1.8 unsigned int gigEMinorVersion
- 3.2.1.9 unsigned int iidcVer
- 3.2.1.10 fc2InterfaceType interfaceType
- 3.2.1.11 fc2IPAddress ipAddress
- 3.2.1.12 BOOL isColorCamera
- 3.2.1.13 fc2MACAddress macAddress
- 3.2.1.14 fc2BusSpeed maximumBusSpeed
- 3.2.1.15 char modelName[MAX_STRING_LENGTH]
- 3.2.1.16 unsigned int reserved[16]
- 3.2.1.17 char sensorInfo[MAX_STRING_LENGTH]
- 3.2.1.18 char sensorResolution[MAX_STRING_LENGTH]
- 3.2.1.19 unsigned int serialNumber
- 3.2.1.20 fc2IPAddress subnetMask
- 3.2.1.21 char userDefinedName[MAX_STRING_LENGTH]
- 3.2.1.22 char vendorName[MAX_STRING_LENGTH]
- 3.2.1.23 char xmlURL1[MAX_STRING_LENGTH]
- 3.2.1.24 char xmlURL2[MAX_STRING_LENGTH]

The documentation for this struct was generated from the following file:

3.3 fc2Config Struct Reference

Data Fields

- unsigned int numBuffers
- unsigned int numImageNotifications
- int grabTimeout
- fc2GrabMode grabMode
- fc2BusSpeed isochBusSpeed
- fc2BusSpeed asyncBusSpeed
- fc2BandwidthAllocation bandwidthAllocation
- unsigned int reserved [16]

3.3.1 Field Documentation

- 3.3.1.1 fc2BusSpeed asyncBusSpeed
- 3.3.1.2 fc2BandwidthAllocation bandwidthAllocation
- 3.3.1.3 fc2GrabMode grabMode
- 3.3.1.4 int grabTimeout
- 3.3.1.5 fc2BusSpeed isochBusSpeed
- 3.3.1.6 unsigned int numBuffers
- 3.3.1.7 unsigned int numImageNotifications
- 3.3.1.8 unsigned int reserved[16]

The documentation for this struct was generated from the following file:

3.4 fc2ConfigROM Struct Reference

Data Fields

- unsigned int nodeVendorId
- unsigned int chipIdHi
- unsigned int chipIdLo
- unsigned int unitSpecId
- unsigned int unitSWVer
- unsigned int unitSubSWVer
- unsigned int vendorUniqueInfo_0
- unsigned int vendorUniqueInfo_1
- unsigned int vendorUniqueInfo_2
- unsigned int vendorUniqueInfo_3
- char pszKeyword [MAX_STRING_LENGTH]
- unsigned int reserved [16]

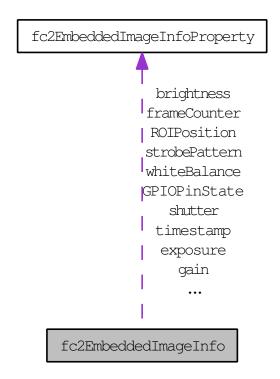
3.4.1 Field Documentation

- 3.4.1.1 unsigned int chipIdHi
- 3.4.1.2 unsigned int chipIdLo
- 3.4.1.3 unsigned int nodeVendorId
- 3.4.1.4 char pszKeyword[MAX_STRING_LENGTH]
- 3.4.1.5 unsigned int reserved[16]
- 3.4.1.6 unsigned int unitSpecId
- 3.4.1.7 unsigned int unitSubSWVer
- 3.4.1.8 unsigned int unitSWVer
- 3.4.1.9 unsigned int vendorUniqueInfo_0
- 3.4.1.10 unsigned int vendorUniqueInfo_1
- 3.4.1.11 unsigned int vendorUniqueInfo_2
- 3.4.1.12 unsigned int vendorUniqueInfo_3

The documentation for this struct was generated from the following file:

3.5 fc2EmbeddedImageInfo Struct Reference

Collaboration diagram for fc2EmbeddedImageInfo:



Data Fields

- fc2EmbeddedImageInfoProperty timestamp
- fc2EmbeddedImageInfoProperty gain
- fc2EmbeddedImageInfoProperty shutter
- fc2EmbeddedImageInfoProperty brightness
- fc2EmbeddedImageInfoProperty exposure
- $\bullet \ \ fc 2 Embedded Image Info Property \ white Balance$
- fc2EmbeddedImageInfoProperty frameCounter
- fc2EmbeddedImageInfoProperty strobePattern
- fc2EmbeddedImageInfoProperty GPIOPinState
- fc2EmbeddedImageInfoProperty ROIPosition

3.5.1 Field Documentation

- ${\bf 3.5.1.1} \quad fc 2 Embedded Image Info Property\ brightness$
- 3.5.1.2 fc2EmbeddedImageInfoProperty exposure
- 3.5.1.3 fc2EmbeddedImageInfoProperty frameCounter
- 3.5.1.4 fc2EmbeddedImageInfoProperty gain
- 3.5.1.5 fc2EmbeddedImageInfoProperty GPIOPinState
- 3.5.1.6 fc2EmbeddedImageInfoProperty ROIPosition
- 3.5.1.7 fc2EmbeddedImageInfoProperty shutter
- 3.5.1.8 fc2EmbeddedImageInfoProperty strobePattern
- 3.5.1.9 fc2EmbeddedImageInfoProperty timestamp
- ${\bf 3.5.1.10} \quad fc 2 Embedded Image Info Property\ white Balance$

The documentation for this struct was generated from the following file:

3.6 fc2EmbeddedImageInfoProperty Struct Reference

Data Fields

- BOOL available
- BOOL onOff

3.6.1 Field Documentation

3.6.1.1 BOOL available

3.6.1.2 BOOL onOff

The documentation for this struct was generated from the following file:

3.7 fc2Format7ImageSettings Struct Reference

Data Fields

- fc2Mode mode
- unsigned int offsetX
- unsigned int offsetY
- unsigned int width
- unsigned int height
- fc2PixelFormat pixelFormat
- unsigned int reserved [8]

3.7.1 Field Documentation

- 3.7.1.1 unsigned int height
- 3.7.1.2 fc2Mode mode
- 3.7.1.3 unsigned int offsetX
- 3.7.1.4 unsigned int offsetY
- 3.7.1.5 fc2PixelFormat pixelFormat
- 3.7.1.6 unsigned int reserved[8]

3.7.1.7 unsigned int width

The documentation for this struct was generated from the following file:

3.8 fc2Format7Info Struct Reference

Data Fields

- fc2Mode mode
- unsigned int maxWidth
- unsigned int maxHeight
- unsigned int offsetHStepSize
- unsigned int offsetVStepSize
- unsigned int imageHStepSize
- unsigned int imageVStepSize
- unsigned int pixelFormatBitField
- unsigned int packetSize
- unsigned int minPacketSize
- unsigned int maxPacketSize
- float percentage
- unsigned int reserved [16]

3.8.1 Field Documentation

- 3.8.1.1 unsigned int imageHStepSize
- 3.8.1.2 unsigned int imageVStepSize
- 3.8.1.3 unsigned int maxHeight
- 3.8.1.4 unsigned int maxPacketSize
- 3.8.1.5 unsigned int maxWidth
- 3.8.1.6 unsigned int minPacketSize
- **3.8.1.7 fc2Mode mode**
- 3.8.1.8 unsigned int offsetHStepSize
- 3.8.1.9 unsigned int offsetVStepSize
- 3.8.1.10 unsigned int packetSize
- 3.8.1.11 float percentage
- 3.8.1.12 unsigned int pixelFormatBitField
- 3.8.1.13 unsigned int reserved[16]

The documentation for this struct was generated from the following file:

3.9 fc2Format7PacketInfo Struct Reference

Data Fields

- unsigned int recommendedBytesPerPacket
- unsigned int maxBytesPerPacket
- unsigned int unitBytesPerPacket
- unsigned int reserved [8]

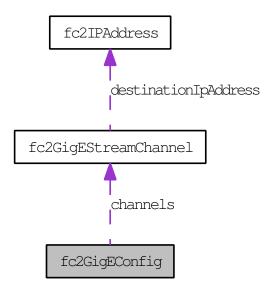
3.9.1 Field Documentation

- 3.9.1.1 unsigned int maxBytesPerPacket
- 3.9.1.2 unsigned int recommendedBytesPerPacket
- 3.9.1.3 unsigned int reserved[8]
- 3.9.1.4 unsigned int unitBytesPerPacket

The documentation for this struct was generated from the following file:

3.10 fc2GigEConfig Struct Reference

Collaboration diagram for fc2GigEConfig:



Data Fields

- unsigned int numChannels
- fc2GigEStreamChannel channels [512]
- unsigned int reserved [8]

3.10.1 Field Documentation

- 3.10.1.1 fc2GigEStreamChannel channels[512]
- 3.10.1.2 unsigned int numChannels
- 3.10.1.3 unsigned int reserved[8]

The documentation for this struct was generated from the following file:

3.11 fc2GigEImageSettings Struct Reference

Data Fields

- unsigned int offsetX
- unsigned int offsetY
- unsigned int width
- unsigned int height
- fc2PixelFormat pixelFormat
- unsigned int reserved [8]

3.11.1 Field Documentation

- 3.11.1.1 unsigned int height
- 3.11.1.2 unsigned int offsetX
- 3.11.1.3 unsigned int offsetY
- 3.11.1.4 fc2PixelFormat pixelFormat
- 3.11.1.5 unsigned int reserved[8]
- 3.11.1.6 unsigned int width

The documentation for this struct was generated from the following file:

3.12 fc2GigEImageSettingsInfo Struct Reference

Data Fields

- unsigned int maxWidth
- unsigned int maxHeight
- unsigned int offsetHStepSize
- unsigned int offsetVStepSize
- unsigned int imageHStepSize
- unsigned int imageVStepSize
- unsigned int pixelFormatBitField
- unsigned int reserved [16]

3.12.1 Field Documentation

- 3.12.1.1 unsigned int imageHStepSize
- 3.12.1.2 unsigned int imageVStepSize
- 3.12.1.3 unsigned int maxHeight
- 3.12.1.4 unsigned int maxWidth
- 3.12.1.5 unsigned int offsetHStepSize
- 3.12.1.6 unsigned int offsetVStepSize
- 3.12.1.7 unsigned int pixelFormatBitField
- 3.12.1.8 unsigned int reserved[16]

The documentation for this struct was generated from the following file:

3.13 fc2GigEProperty Struct Reference

Data Fields

- fc2GigEPropertyType propType
- BOOL isReadable
- BOOL isWritable
- unsigned int min
- unsigned int max
- unsigned int value
- unsigned int reserved [8]

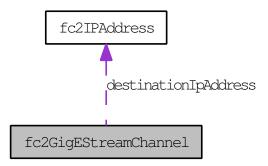
3.13.1 Field Documentation

- 3.13.1.1 BOOL is Readable
- 3.13.1.2 BOOL is Writable
- 3.13.1.3 unsigned int max
- 3.13.1.4 unsigned int min
- 3.13.1.5 fc2GigEPropertyType propType
- 3.13.1.6 unsigned int reserved[8]
- 3.13.1.7 unsigned int value

The documentation for this struct was generated from the following file:

3.14 fc2GigEStreamChannel Struct Reference

Collaboration diagram for fc2GigEStreamChannel:



Data Fields

- unsigned int networkInterfaceIndex
- unsigned int hostPost
- BOOL doNotFragment
- unsigned int packetSize
- unsigned int interPacketDelay
- fc2IPAddress destinationIpAddress
- unsigned int sourcePort
- unsigned int reserved [8]

3.14.1 Field Documentation

- 3.14.1.1 fc2IPAddress destinationIpAddress
- 3.14.1.2 BOOL doNotFragment
- 3.14.1.3 unsigned int hostPost
- 3.14.1.4 unsigned int interPacketDelay
- 3.14.1.5 unsigned int networkInterfaceIndex
- 3.14.1.6 unsigned int packetSize
- 3.14.1.7 unsigned int reserved[8]
- 3.14.1.8 unsigned int sourcePort

The documentation for this struct was generated from the following file:

3.15 fc2Image Struct Reference

Data Fields

- unsigned int rows
- unsigned int cols
- unsigned int stride
- unsigned char * pData
- unsigned int dataSize
- fc2PixelFormat format
- fc2BayerTileFormat bayerFormat
- fc2ImageImpl imageImpl

3.15.1 Field Documentation

- 3.15.1.1 fc2BayerTileFormat bayerFormat
- 3.15.1.2 unsigned int cols
- 3.15.1.3 unsigned int dataSize
- 3.15.1.4 fc2PixelFormat format
- 3.15.1.5 fc2ImageImpl imageImpl
- 3.15.1.6 unsigned char* pData
- 3.15.1.7 unsigned int rows
- 3.15.1.8 unsigned int stride

The documentation for this struct was generated from the following file:

3.16 fc2ImageMetadata Struct Reference

Data Fields

- unsigned int embeddedTimeStamp
- unsigned int embeddedGain
- unsigned int embeddedShutter
- unsigned int embeddedBrightness
- unsigned int embeddedExposure
- unsigned int embeddedWhiteBalance
- unsigned int embeddedFrameCounter
- unsigned int embeddedStrobePattern
- unsigned int embeddedGPIOPinState
- unsigned int embeddedROIPosition
- unsigned int reserved [31]

3.16.1 Field Documentation

- 3.16.1.1 unsigned int embeddedBrightness
- 3.16.1.2 unsigned int embeddedExposure
- 3.16.1.3 unsigned int embeddedFrameCounter
- 3.16.1.4 unsigned int embeddedGain
- 3.16.1.5 unsigned int embeddedGPIOPinState
- 3.16.1.6 unsigned int embeddedROIPosition
- 3.16.1.7 unsigned int embeddedShutter
- 3.16.1.8 unsigned int embeddedStrobePattern
- 3.16.1.9 unsigned int embeddedTimeStamp
- 3.16.1.10 unsigned int embeddedWhiteBalance
- 3.16.1.11 unsigned int reserved[31]

The documentation for this struct was generated from the following file:

3.17 fc2InternalContext Struct Reference

Data Fields

- FlyCapture2::BusManager * pBusMgr
- FlyCapture2::CameraBase * pCamera

3.17.1 Field Documentation

3.17.1.1 FlyCapture2::BusManager* pBusMgr

3.17.1.2 FlyCapture2::CameraBase* pCamera

The documentation for this struct was generated from the following file:

• FlyCapture2Internal_C.h

3.18 fc2InternalGuiContext Struct Reference

Data Fields

- FlyCapture2::CameraSelectionDlg * pCameraSelectionDlg
- FlyCapture2::CameraControlDlg * pCameraControlDlg

3.18.1 Field Documentation

3.18.1.1 FlyCapture2::CameraControlDlg* pCameraControlDlg

3.18.1.2 FlyCapture2::CameraSelectionDlg* pCameraSelectionDlg

The documentation for this struct was generated from the following file:

• FlyCapture2Internal_C.h

3.19 fc2InternalImageCallback Struct Reference

Data Fields

- fc2ImageEventCallback pCallback
- void * pCallbackData

3.19.1 Field Documentation

3.19.1.1 fc2ImageEventCallback pCallback

3.19.1.2 void* pCallbackData

The documentation for this struct was generated from the following file:

• FlyCapture2Internal_C.h

3.20 fc2IPAddress Struct Reference

Data Fields

• unsigned char octets [4]

3.20.1 Field Documentation

3.20.1.1 unsigned char octets[4]

The documentation for this struct was generated from the following file:

3.21 fc2JPEGOption Struct Reference

Data Fields

- BOOL progressive
- unsigned int quality
- unsigned int reserved [16]

3.21.1 Field Documentation

- 3.21.1.1 BOOL progressive
- 3.21.1.2 unsigned int quality
- 3.21.1.3 unsigned int reserved[16]

The documentation for this struct was generated from the following file:

3.22 fc2JPG2Option Struct Reference

Data Fields

- unsigned int quality
- unsigned int reserved [16]

3.22.1 Field Documentation

3.22.1.1 unsigned int quality

3.22.1.2 unsigned int reserved[16]

The documentation for this struct was generated from the following file:

3.23 fc2LUTData Struct Reference

Data Fields

- BOOL supported
- BOOL enabled
- unsigned int numBanks
- unsigned int numChannels
- unsigned int inputBitDepth
- unsigned int outputBitDepth
- unsigned int numEntries
- unsigned int reserved [8]

3.23.1 Field Documentation

- 3.23.1.1 BOOL enabled
- 3.23.1.2 unsigned int inputBitDepth
- 3.23.1.3 unsigned int numBanks
- 3.23.1.4 unsigned int numChannels
- 3.23.1.5 unsigned int numEntries
- 3.23.1.6 unsigned int outputBitDepth
- 3.23.1.7 unsigned int reserved[8]

3.23.1.8 BOOL supported

The documentation for this struct was generated from the following file:

3.24 fc2MACAddress Struct Reference

Data Fields

• unsigned char octets [6]

3.24.1 Field Documentation

3.24.1.1 unsigned char octets[6]

The documentation for this struct was generated from the following file:

3.25 fc2PGMOption Struct Reference

Data Fields

- BOOL binaryFile
- unsigned int reserved [16]

3.25.1 Field Documentation

3.25.1.1 BOOL binaryFile

3.25.1.2 unsigned int reserved[16]

The documentation for this struct was generated from the following file:

3.26 fc2PGRGuid Struct Reference

A GUID to the camera.

Data Fields

• unsigned int value [4]

3.26.1 Detailed Description

A GUID to the camera.

It is used to uniquely identify a camera.

3.26.2 Field Documentation

3.26.2.1 unsigned int value[4]

The documentation for this struct was generated from the following file:

3.27 fc2PNGOption Struct Reference

Data Fields

- BOOL interlaced
- unsigned int compressionLevel
- unsigned int reserved [16]

3.27.1 Field Documentation

- 3.27.1.1 unsigned int compressionLevel
- 3.27.1.2 BOOL interlaced
- 3.27.1.3 unsigned int reserved[16]

The documentation for this struct was generated from the following file:

3.28 fc2PPMOption Struct Reference

Data Fields

- BOOL binaryFile
- unsigned int reserved [16]

3.28.1 Field Documentation

3.28.1.1 BOOL binaryFile

3.28.1.2 unsigned int reserved[16]

The documentation for this struct was generated from the following file:

3.29 fc2StrobeControl Struct Reference

Data Fields

- unsigned int source
- BOOL onOff
- unsigned int polarity
- float delay
- float duration
- unsigned int reserved [8]

3.29.1 Field Documentation

- **3.29.1.1** float delay
- 3.29.1.2 float duration
- 3.29.1.3 **BOOL onOff**
- 3.29.1.4 unsigned int polarity
- 3.29.1.5 unsigned int reserved[8]
- 3.29.1.6 unsigned int source

The documentation for this struct was generated from the following file:

3.30 fc2StrobeInfo Struct Reference

Data Fields

- unsigned int source
- BOOL present
- BOOL readOutSupported
- BOOL onOffSupported
- BOOL polaritySupported
- float minValue
- float max Value
- unsigned int reserved [8]

3.30.1 Field Documentation

- 3.30.1.1 float maxValue
- 3.30.1.2 float minValue
- 3.30.1.3 BOOL onOffSupported
- 3.30.1.4 BOOL polaritySupported
- 3.30.1.5 BOOL present
- 3.30.1.6 BOOL readOutSupported
- 3.30.1.7 unsigned int reserved[8]
- 3.30.1.8 unsigned int source

The documentation for this struct was generated from the following file:

3.31 fc2SystemInfo Struct Reference

Data Fields

- fc2OSType osType
- char osDescription [MAX_STRING_LENGTH]
- fc2ByteOrder byteOrder
- size_t sysMemSize
- char cpuDescription [MAX_STRING_LENGTH]
- size_t numCpuCores
- char driverList [MAX_STRING_LENGTH]
- char libraryList [MAX_STRING_LENGTH]
- char gpuDescription [MAX_STRING_LENGTH]
- size_t screenWidth
- size_t screenHeight
- unsigned int reserved [16]

3.31.1 Field Documentation

- 3.31.1.1 fc2ByteOrder byteOrder
- 3.31.1.2 char cpuDescription[MAX_STRING_LENGTH]
- 3.31.1.3 char driverList[MAX_STRING_LENGTH]
- 3.31.1.4 char gpuDescription[MAX_STRING_LENGTH]
- 3.31.1.5 char libraryList[MAX_STRING_LENGTH]
- 3.31.1.6 size_t numCpuCores
- 3.31.1.7 char osDescription[MAX_STRING_LENGTH]
- 3.31.1.8 fc2OSType osType
- 3.31.1.9 unsigned int reserved[16]
- 3.31.1.10 size_t screenHeight
- 3.31.1.11 size_t screenWidth
- 3.31.1.12 size_t sysMemSize

The documentation for this struct was generated from the following file:

3.32 fc2TIFFOption Struct Reference

Data Fields

- fc2TIFFCompressionMethod compression
- unsigned int reserved [16]

3.32.1 Field Documentation

3.32.1.1 fc2TIFFCompressionMethod compression

3.32.1.2 unsigned int reserved[16]

The documentation for this struct was generated from the following file:

3.33 fc2TimeStamp Struct Reference

Data Fields

- long long seconds
- unsigned int microSeconds
- unsigned int cycleSeconds
- unsigned int cycleCount
- unsigned int cycleOffset
- unsigned int reserved [8]

3.33.1 Field Documentation

- 3.33.1.1 unsigned int cycleCount
- 3.33.1.2 unsigned int cycleOffset
- 3.33.1.3 unsigned int cycleSeconds
- 3.33.1.4 unsigned int microSeconds
- 3.33.1.5 unsigned int reserved[8]
- 3.33.1.6 long long seconds

The documentation for this struct was generated from the following file:

3.34 fc2TriggerDelay Struct Reference

Data Fields

- fc2PropertyType type
- BOOL present
- BOOL absControl
- BOOL onePush
- BOOL onOff
- BOOL autoManualMode
- unsigned int valueA
- unsigned int valueB
- float absValue
- unsigned int reserved [8]

3.34.1 Field Documentation

- 3.34.1.1 BOOL absControl
- 3.34.1.2 float absValue
- 3.34.1.3 BOOL autoManualMode
- 3.34.1.4 BOOL onePush
- 3.34.1.5 **BOOL onOff**
- 3.34.1.6 BOOL present
- 3.34.1.7 unsigned int reserved[8]
- 3.34.1.8 fc2PropertyType type
- 3.34.1.9 unsigned int valueA
- 3.34.1.10 unsigned int valueB

The documentation for this struct was generated from the following file:

3.35 fc2TriggerDelayInfo Struct Reference

Data Fields

• fc2PropertyType type
BOOL present
BOOL autoSupported
BOOL manualSupported
BOOL onOffSupported
BOOL onePushSupported
BOOL absValSupported
BOOL readOutSupported
• unsigned int min
• unsigned int max
• float absMin
• float absMax
• char pUnits [MAX_STRING_LENGTH]
• char pUnitAbbr [MAX_STRING_LENGTH]
• unsigned int reserved [8]

- 3.35.1 Field Documentation
- **3.35.1.1** float absMax
- **3.35.1.2 float absMin**
- 3.35.1.3 BOOL absValSupported
- 3.35.1.4 BOOL autoSupported
- 3.35.1.5 BOOL manualSupported
- 3.35.1.6 unsigned int max
- 3.35.1.7 unsigned int min
- 3.35.1.8 BOOL onePushSupported
- 3.35.1.9 BOOL onOffSupported
- **3.35.1.10** BOOL present
- 3.35.1.11 char pUnitAbbr[MAX_STRING_LENGTH]
- 3.35.1.12 char pUnits[MAX_STRING_LENGTH]
- 3.35.1.13 BOOL readOutSupported
- 3.35.1.14 unsigned int reserved[8]
- 3.35.1.15 fc2PropertyType type

The documentation for this struct was generated from the following file:

3.36 fc2TriggerMode Struct Reference

Data Fields

- BOOL onOff
- unsigned int polarity
- unsigned int source
- unsigned int mode
- unsigned int parameter
- unsigned int reserved [8]

3.36.1 Field Documentation

- 3.36.1.1 unsigned int mode
- 3.36.1.2 **BOOL** onOff
- 3.36.1.3 unsigned int parameter
- 3.36.1.4 unsigned int polarity
- 3.36.1.5 unsigned int reserved[8]
- 3.36.1.6 unsigned int source

The documentation for this struct was generated from the following file:

3.37 fc2TriggerModeInfo Struct Reference

Data Fields

- BOOL present
- BOOL readOutSupported
- BOOL onOffSupported
- BOOL polaritySupported
- BOOL valueReadable
- unsigned int sourceMask
- BOOL softwareTriggerSupported
- unsigned int modeMask
- unsigned int reserved [8]

3.37.1 Field Documentation

- 3.37.1.1 unsigned int modeMask
- 3.37.1.2 BOOL on Off Supported
- 3.37.1.3 BOOL polaritySupported
- **3.37.1.4 BOOL present**
- 3.37.1.5 BOOL readOutSupported
- 3.37.1.6 unsigned int reserved[8]
- 3.37.1.7 BOOL software Trigger Supported
- 3.37.1.8 unsigned int sourceMask
- 3.37.1.9 BOOL valueReadable

The documentation for this struct was generated from the following file:

3.38 fc2Version Struct Reference

Data Fields

- unsigned int major
- unsigned int minor
- unsigned int type
- unsigned int build

3.38.1 Field Documentation

- 3.38.1.1 unsigned int build
- 3.38.1.2 unsigned int major
- 3.38.1.3 unsigned int minor
- 3.38.1.4 unsigned int type

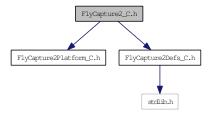
The documentation for this struct was generated from the following file:

Chapter 4

File Documentation

4.1 FlyCapture2_C.h File Reference

Include dependency graph for FlyCapture2_C.h:



Functions

- FLYCAPTURE2_C_API fc2Error fc2CreateContext (fc2Context *pContext)

 Create a FC2 context for IIDC camaera.
- FLYCAPTURE2_C_API fc2Error fc2CreateGigEContext (fc2Context *pContext)

 Create a FC2 context for a GigE Vision camera.
- FLYCAPTURE2_C_API fc2Error fc2DestroyContext (fc2Context context) Destroy the FC2 context.
- FLYCAPTURE2_C_API fc2Error fc2FireBusReset (fc2Context context, fc2PGRGuid *pGuid) Fire a bus reset.
- FLYCAPTURE2_C_API fc2Error fc2GetNumOfCameras (fc2Context context, unsigned int *pNumCameras)

Gets the number of cameras attached to the PC.

• FLYCAPTURE2_C_API fc2Error fc2GetCameraFromIndex (fc2Context context, unsigned int index, fc2PGRGuid *pGuid)

Gets the PGRGuid for a camera on the PC.

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 FLYCAPTURE2_C_API fc2Error fc2GetCameraFromSerialNumber (fc2Context context, unsigned int serialNumber, fc2PGRGuid *pGuid)

Gets the PGRGuid for a camera on the PC.

• FLYCAPTURE2_C_API fc2Error fc2GetCameraSerialNumberFromIndex (fc2Context context, unsigned int index, unsigned int *pSerialNumber)

Gets the serial number of the camera with the specified index.

FLYCAPTURE2_C_API fc2Error fc2GetInterfaceTypeFromGuid (fc2Context context, fc2PGRGuid *pGuid, fc2InterfaceType *pInterfaceType)

Gets the interface type associated with a PGRGuid.

• FLYCAPTURE2_C_API fc2Error fc2GetNumOfDevices (fc2Context context, unsigned int *pNumDevices)

Gets the number of devices.

FLYCAPTURE2_C_API fc2Error fc2GetDeviceFromIndex (fc2Context context, unsigned int index, fc2PGRGuid *pGuid)

Gets the PGRGuid for a device.

• FLYCAPTURE2_C_API fc2Error fc2RegisterCallback (fc2Context context, fc2BusEventCallback enumCallback, fc2BusCallbackType callbackType, void *pParameter, fc2CallbackHandle *pCallbackHandle)

Register a callback function that will be called when the specified callback event occurs.

• FLYCAPTURE2_C_API fc2Error fc2UnregisterCallback (fc2Context context, fc2CallbackHandle callbackHandle)

Unregister a callback function.

• FLYCAPTURE2_C_API fc2Error fc2RescanBus (fc2Context context)

Force a rescan of the buses.

• FLYCAPTURE2_C_API fc2Error fc2ForceIPAddressToCamera (fc2Context context, fc2MACAddress macAddress, fc2IPAddress ipAddress, fc2IPAddress subnetMask, fc2IPAddress defaultGateway)

Force the camera with the specific MAC address to the specified IP address, subnet mask and default gateway.

• FLYCAPTURE2_C_API fc2Error fc2DiscoverGigECameras (fc2Context context, fc2CameraInfo *gigECameras, unsigned int *arraySize)

Discover all cameras connected to the network even if they reside on a different subnet.

• FLYCAPTURE2_C_API fc2Error fc2WriteRegister (fc2Context context, unsigned int address, unsigned int value)

Write to the specified register on the camera.

• FLYCAPTURE2_C_API fc2Error fc2WriteRegisterBroadcast (fc2Context context, unsigned int address, unsigned int value)

Write to the specified register on the camera with broadcast.

FLYCAPTURE2_C_API fc2Error fc2ReadRegister (fc2Context context, unsigned int address, unsigned int *pValue)

Read the specified register from the camera.

• FLYCAPTURE2_C_API fc2Error fc2WriteRegisterBlock (fc2Context context, unsigned short addressHigh, unsigned int addressLow, const unsigned int *pBuffer, unsigned int length)

Write to the specified register block on the camera.

• FLYCAPTURE2_C_API fc2Error fc2ReadRegisterBlock (fc2Context context, unsigned short addressHigh, unsigned int addressLow, unsigned int *pBuffer, unsigned int length)

Write to the specified register block on the camera.

• FLYCAPTURE2_C_API fc2Error fc2Connect (fc2Context context, fc2PGRGuid *guid)

Connects the camera object to the camera specified by the GUID.

• FLYCAPTURE2_C_API fc2Error fc2Disconnect (fc2Context context)

Disconnects the fc2Context from the camera.

• FLYCAPTURE2_C_API fc2Error fc2SetCallback (fc2Context context, fc2ImageEventCallback pCallbackFn, void *pCallbackData)

Sets the callback data to be used on completion of image transfer.

• FLYCAPTURE2 C API fc2Error fc2StartCapture (fc2Context context)

Starts isochronous image capture.

FLYCAPTURE2_C_API fc2Error fc2StartCaptureCallback (fc2Context context, fc2ImageEventCallback pCallbackFn, void *pCallbackData)

Starts isochronous image capture.

• FLYCAPTURE2_C_API fc2Error fc2StartSyncCapture (unsigned int numCameras, fc2Context *pContexts)

Starts synchronized isochronous image capture on multiple cameras.

 $\bullet \ FLYCAPTURE2_C_API \ fc2Error \ fc2StartSyncCaptureCallback \ (unsigned \ int \ numCameras, fc2Context *pContexts, fc2ImageEventCallback *pCallbackFns, void **pCallbackDataArray)$

Starts synchronized isochronous image capture on multiple cameras.

• FLYCAPTURE2 C API fc2Error fc2RetrieveBuffer (fc2Context context, fc2Image *pImage)

Retrieves the the next image object containing the next image.

• FLYCAPTURE2_C_API fc2Error fc2StopCapture (fc2Context context)

Stops isochronous image transfer and cleans up all associated resources.

FLYCAPTURE2_C_API fc2Error fc2SetUserBuffers (fc2Context context, unsigned char *const pp-MemBuffers, int size, int nNumBuffers)

Specify user allocated buffers to use as image data buffers.

• FLYCAPTURE2_C_API fc2Error fc2GetConfiguration (fc2Context context, fc2Config *config)

Get the configuration associated with the camera.

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• FLYCAPTURE2_C_API fc2Error fc2SetConfiguration (fc2Context context, fc2Config *config)

Set the configuration associated with the camera.

• FLYCAPTURE2_C_API fc2Error fc2GetCameraInfo (fc2Context context, fc2CameraInfo *pCameraInfo)

Retrieves information from the camera such as serial number, model name and other camera information.

• FLYCAPTURE2_C_API fc2Error fc2GetPropertyInfo (fc2Context context, fc2PropertyInfo *propInfo)

Retrieves information about the specified camera property.

- FLYCAPTURE2_C_API fc2Error fc2GetProperty (fc2Context context, fc2Property *prop)

 Reads the settings for the specified property from the camera.
- FLYCAPTURE2_C_API fc2Error fc2SetProperty (fc2Context context, fc2Property *prop) Writes the settings for the specified property to the camera.
- FLYCAPTURE2_C_API fc2Error fc2SetPropertyBroadcast (fc2Context context, fc2Property *prop)

Writes the settings for the specified property to the camera.

• FLYCAPTURE2_C_API fc2Error fc2GetGPIOPinDirection (fc2Context context, unsigned int pin, unsigned int *pDirection)

Get the GPIO pin direction for the specified pin.

• FLYCAPTURE2_C_API fc2Error fc2SetGPIOPinDirection (fc2Context context, unsigned int pin, unsigned int direction)

Set the GPIO pin direction for the specified pin.

• FLYCAPTURE2_C_API fc2Error fc2SetGPIOPinDirectionBroadcast (fc2Context context, unsigned int pin, unsigned int direction)

Set the GPIO pin direction for the specified pin.

• FLYCAPTURE2_C_API fc2Error fc2GetTriggerModeInfo (fc2Context context, fc2TriggerModeInfo *triggerModeInfo)

Retrieve trigger information from the camera.

 FLYCAPTURE2_C_API fc2Error fc2GetTriggerMode (fc2Context context, fc2TriggerMode *triggerMode)

Retrieve current trigger settings from the camera.

 FLYCAPTURE2_C_API fc2Error fc2SetTriggerMode (fc2Context context, fc2TriggerMode *triggerMode)

Set the specified trigger settings to the camera.

• FLYCAPTURE2_C_API fc2Error fc2SetTriggerModeBroadcast (fc2Context context, fc2TriggerMode *triggerMode)

Set the specified trigger settings to the camera.

- FLYCAPTURE2_C_API fc2Error fc2FireSoftwareTrigger (fc2Context context)
- FLYCAPTURE2_C_API fc2Error fc2FireSoftwareTriggerBroadcast (fc2Context context)

Fire the software trigger according to the DCAM specifications.

• FLYCAPTURE2_C_API fc2Error fc2GetTriggerDelayInfo (fc2Context context, fc2TriggerDelayInfo *triggerDelayInfo)

Retrieve trigger delay information from the camera.

 FLYCAPTURE2_C_API fc2Error fc2GetTriggerDelay (fc2Context context, fc2TriggerDelay *triggerDelay)

Retrieve current trigger delay settings from the camera.

• FLYCAPTURE2_C_API fc2Error fc2SetTriggerDelay (fc2Context context, fc2TriggerDelay *triggerDelay)

Set the specified trigger delay settings to the camera.

• FLYCAPTURE2_C_API fc2Error fc2SetTriggerDelayBroadcast (fc2Context context, fc2TriggerDelay *triggerDelay)

Set the specified trigger delay settings to the camera.

FLYCAPTURE2_C_API fc2Error fc2GetStrobeInfo (fc2Context context, fc2StrobeInfo *strobeInfo)

Retrieve strobe information from the camera.

 FLYCAPTURE2_C_API fc2Error fc2GetStrobe (fc2Context context, fc2StrobeControl *strobeControl)

Retrieve current strobe settings from the camera.

• FLYCAPTURE2_C_API fc2Error fc2SetStrobe (fc2Context context, fc2StrobeControl *strobeControl)

Set current strobe settings to the camera.

• FLYCAPTURE2_C_API fc2Error fc2SetStrobeBroadcast (fc2Context context, fc2StrobeControl *strobeControl)

Set current strobe settings to the camera.

• FLYCAPTURE2_C_API fc2Error fc2GetVideoModeAndFrameRateInfo (fc2Context context, fc2VideoMode videoMode, fc2FrameRate frameRate, BOOL *pSupported)

Query the camera to determine if the specified video mode and frame rate is supported.

• FLYCAPTURE2_C_API fc2Error fc2GetVideoModeAndFrameRate (fc2Context context, fc2VideoMode *videoMode, fc2FrameRate *frameRate)

Get the current video mode and frame rate from the camera.

FLYCAPTURE2_C_API fc2Error fc2SetVideoModeAndFrameRate (fc2Context context, fc2VideoMode videoMode, fc2FrameRate frameRate)

Set the specified video mode and frame rate to the camera.

• FLYCAPTURE2_C_API fc2Error fc2GetFormat7Info (fc2Context context, fc2Format7Info *info, BOOL *pSupported)

Retrieve the availability of Format7 custom image mode and the camera capabilities for the specified Format7 mode.

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FLYCAPTURE2_C_API fc2Error fc2ValidateFormat7Settings (fc2Context context, fc2Format7ImageSettings *imageSettings, BOOL *settingsAreValid, fc2Format7PacketInfo *packetInfo)

Validates Format7ImageSettings structure and returns valid packet size information if the image settings are valid.

• FLYCAPTURE2_C_API fc2Error fc2GetFormat7Configuration (fc2Context context, fc2Format7ImageSettings *imageSettings, unsigned int *packetSize, float *percentage)

Get the current Format7 configuration from the camera.

FLYCAPTURE2_C_API fc2Error fc2SetFormat7ConfigurationPacket (fc2Context context, fc2Format7ImageSettings *imageSettings, unsigned int packetSize)

Set the current Format7 configuration to the camera.

• FLYCAPTURE2_C_API fc2Error fc2SetFormat7Configuration (fc2Context context, fc2Format7ImageSettings *imageSettings, float percentSpeed)

Set the current Format7 configuration to the camera.

• FLYCAPTURE2_C_API fc2Error fc2WriteGVCPRegister (fc2Context context, unsigned int address, unsigned int value)

Write a GVCP register.

• FLYCAPTURE2_C_API fc2Error fc2WriteGVCPRegisterBroadcast (fc2Context context, unsigned int address, unsigned int value)

Write a GVCP register with broadcast.

• FLYCAPTURE2_C_API fc2Error fc2ReadGVCPRegister (fc2Context context, unsigned int address, unsigned int *pValue)

Read a GVCP register.

• FLYCAPTURE2_C_API fc2Error fc2WriteGVCPRegisterBlock (fc2Context context, unsigned int address, const unsigned int *pBuffer, unsigned int length)

Write a GVCP register block.

• FLYCAPTURE2_C_API fc2Error fc2ReadGVCPRegisterBlock (fc2Context context, unsigned int address, unsigned int *pBuffer, unsigned int length)

Read a GVCP register block.

• FLYCAPTURE2_C_API fc2Error fc2WriteGVCPMemory (fc2Context context, unsigned int address, const unsigned char *pBuffer, unsigned int length)

Write a GVCP memory block.

• FLYCAPTURE2_C_API fc2Error fc2ReadGVCPMemory (fc2Context context, unsigned int address, unsigned char *pBuffer, unsigned int length)

Read a GVCP memory block.

• FLYCAPTURE2_C_API fc2Error fc2GetGigEProperty (fc2Context context, fc2GigEProperty *pGigEProp)

Get the specified GigEProperty.

• FLYCAPTURE2_C_API fc2Error fc2SetGigEProperty (fc2Context context, const fc2GigEProperty *pGigEProp)

Set the specified GigEProperty.

- FLYCAPTURE2_C_API fc2Error fc2QueryGigEImagingMode (fc2Context context, fc2Mode mode, BOOL *isSupported)
- FLYCAPTURE2_C_API fc2Error fc2GetGigEImagingMode (fc2Context context, fc2Mode *mode)
- FLYCAPTURE2_C_API fc2Error fc2SetGigEImagingMode (fc2Context context, fc2Mode mode)
- FLYCAPTURE2_C_API fc2Error fc2GetGigEImageSettingsInfo (fc2Context context, fc2GigEImageSettingsInfo *pInfo)
- FLYCAPTURE2_C_API fc2Error fc2GetGigEImageSettings (fc2Context context, fc2GigEImageSettings *pImageSettings)
- FLYCAPTURE2_C_API fc2Error fc2SetGigEImageSettings (fc2Context context, const fc2GigEImageSettings *pImageSettings)
- FLYCAPTURE2_C_API fc2Error fc2GetGigEImageBinningSettings (fc2Context context, unsigned int *horzBinnningValue, unsigned int *vertBinnningValue)
- FLYCAPTURE2_C_API fc2Error fc2SetGigEImageBinningSettings (fc2Context context, unsigned int horzBinnningValue, unsigned int vertBinnningValue)
- FLYCAPTURE2_C_API fc2Error fc2GetNumStreamChannels (fc2Context context, unsigned int *numChannels)
- FLYCAPTURE2_C_API fc2Error fc2GetGigEStreamChannelInfo (fc2Context context, unsigned int channel, fc2GigEStreamChannel *pChannel)
- FLYCAPTURE2_C_API fc2Error fc2SetGigEStreamChannelInfo (fc2Context context, unsigned int channel, fc2GigEStreamChannel *pChannel)
- FLYCAPTURE2_C_API fc2Error fc2GetLUTInfo (fc2Context context, fc2LUTData *pData)

 Query if LUT support is available on the camera.
- FLYCAPTURE2_C_API fc2Error fc2GetLUTBankInfo (fc2Context context, unsigned int bank, BOOL *pReadSupported, BOOL *pWriteSupported)

Query the read/write status of a single LUT bank.

• FLYCAPTURE2_C_API fc2Error fc2GetActiveLUTBank (fc2Context context, unsigned int *pActiveBank)

Get the LUT bank that is currently being used.

• FLYCAPTURE2_C_API fc2Error fc2SetActiveLUTBank (fc2Context context, unsigned int active-Bank)

Set the LUT bank that will be used.

• FLYCAPTURE2 C API fc2Error fc2EnableLUT (fc2Context context, BOOL on)

Enable or disable LUT functionality on the camera.

• FLYCAPTURE2_C_API fc2Error fc2GetLUTChannel (fc2Context context, unsigned int bank, unsigned int channel, unsigned int sizeEntries, unsigned int *pEntries)

Get the LUT channel settings from the camera.

• FLYCAPTURE2_C_API fc2Error fc2SetLUTChannel (fc2Context context, unsigned int bank, unsigned int channel, unsigned int sizeEntries, unsigned int *pEntries)

Set the LUT channel settings to the camera.

• FLYCAPTURE2_C_API fc2Error fc2GetMemoryChannel (fc2Context context, unsigned int *pCurrentChannel)

Retrieve the current memory channel from the camera.

• FLYCAPTURE2_C_API fc2Error fc2SaveToMemoryChannel (fc2Context context, unsigned int channel)

Save the current settings to the specfied current memory channel.

 FLYCAPTURE2_C_API fc2Error fc2RestoreFromMemoryChannel (fc2Context context, unsigned int channel)

Restore the specfied current memory channel.

• FLYCAPTURE2_C_API fc2Error fc2GetMemoryChannelInfo (fc2Context context, unsigned int *pNumChannels)

Query the camera for memory channel support.

• FLYCAPTURE2_C_API fc2Error fc2GetEmbeddedImageInfo (fc2Context context, fc2EmbeddedImageInfo *pInfo)

Get the current status of the embedded image information register, as well as the availability of each embedded property.

• FLYCAPTURE2_C_API fc2Error fc2SetEmbeddedImageInfo (fc2Context context, fc2EmbeddedImageInfo *pInfo)

Sets the on/off values of the embedded image information structure to the camera.

- FLYCAPTURE2_C_API const char * fc2GetRegisterString (unsigned int registerVal)

 Returns a text representation of the register value.
- FLYCAPTURE2_C_API fc2Error fc2CreateImage (fc2Image *pImage)

 Create a fc2Image.
- FLYCAPTURE2_C_API fc2Error fc2DestroyImage (fc2Image *image)

 Destroy the fc2Image.
- FLYCAPTURE2_C_API fc2Error fc2SetDefaultColorProcessing (fc2ColorProcessingAlgorithm defaultMethod)

Set the default color processing algorithm.

• FLYCAPTURE2_C_API fc2Error fc2GetDefaultColorProcessing (fc2ColorProcessingAlgorithm *pDefaultMethod)

Get the default color processing algorithm.

- FLYCAPTURE2_C_API fc2Error fc2SetDefaultOutputFormat (fc2PixelFormat format) Set the default output pixel format.
- FLYCAPTURE2_C_API fc2Error fc2GetDefaultOutputFormat (fc2PixelFormat *pFormat)

 Get the default output pixel format.
- FLYCAPTURE2_C_API fc2Error fc2DetermineBitsPerPixel (fc2PixelFormat format, unsigned int *pBitsPerPixel)

Calculate the bits per pixel for the specified pixel format.

• FLYCAPTURE2_C_API fc2Error fc2SaveImage (fc2Image *pImage, const char *pFilename, fc2ImageFileFormat format)

Save the image to the specified file name with the file format specified.

• FLYCAPTURE2_C_API fc2Error fc2SaveImageWithOption (fc2Image *pImage, const char *pFilename, fc2ImageFileFormat format, void *pOption)

Save the image to the specified file name with the file format specified.

- FLYCAPTURE2_C_API fc2Error fc2ConvertImage (fc2Image *pImageIn, fc2Image *pImageOut)
- FLYCAPTURE2_C_API fc2Error fc2ConvertImageTo (fc2PixelFormat format, fc2Image *pImageIn, fc2Image *pImageOut)

Converts the current image buffer to the specified output format and stores the result in the specified image.

FLYCAPTURE2_C_API fc2Error fc2GetImageData (fc2Image *pImage, unsigned char **ppData)

Get a pointer to the data associated with the image.

• FLYCAPTURE2_C_API fc2Error fc2SetImageData (fc2Image *pImage, const unsigned char *pData, unsigned int dataSize)

Set the data of the Image object.

FLYCAPTURE2_C_API fc2Error fc2SetImageDimensions (fc2Image *pImage, unsigned int rows, unsigned int cols, unsigned int stride, fc2PixelFormat pixelFormat, fc2BayerTileFormat bayerFormat)

Sets the dimensions of the image object.

- FLYCAPTURE2_C_API fc2TimeStamp fc2GetImageTimeStamp (fc2Image *pImage)
 - Get the timestamp data associated with the image.

FLYCAPTURE2_C_API fc2Error fc2CalculateImageStatistics (fc2Image *pImage, fc2ImageStatisticsContext *pImageStatisticsContext)

Calculate statistics associated with the image.

• FLYCAPTURE2_C_API fc2Error fc2CreateImageStatistics (fc2ImageStatisticsContext *pImageStatisticsContext)

Create a statistics context.

FLYCAPTURE2_C_API fc2Error fc2DestroyImageStatistics (fc2ImageStatisticsContext imageStatisticsContext)

Destroy a statistics context.

• FLYCAPTURE2_C_API fc2Error fc2GetImageStatistics (fc2ImageStatisticsContext imageStatisticsContext, fc2StatisticsChannel channel, unsigned int *pRangeMin, unsigned int *pRangeMax, unsigned int *pPixelValueMin, unsigned int *pPixelValueMax, unsigned int *pNumPixelValues, float *pPixelValueMean, int **ppHistogram)

Get all statistics for the image.

• FLYCAPTURE2_C_API fc2Error fc2CreateAVI (fc2AVIContext *pAVIContext)

Create a AVI context.

• FLYCAPTURE2_C_API fc2Error fc2AVIOpen (fc2AVIContext AVIContext, const char *pFileName, fc2AVIOption *pOption)

Open an AVI file in preparation for writing Images to disk.

• FLYCAPTURE2_C_API fc2Error fc2AVIAppend (fc2AVIContext AVIContext, fc2Image *pImage)

Append an image to the AVI file.

- FLYCAPTURE2_C_API fc2Error fc2AVIClose (fc2AVIContext AVIContext) Close the AVI file.
- FLYCAPTURE2_C_API fc2Error fc2DestroyAVI (fc2AVIContext AVIContext)

 Destroy a AVI context.
- FLYCAPTURE2_C_API fc2Error fc2GetSystemInfo (fc2SystemInfo *pSystemInfo) Get system information.
- FLYCAPTURE2_C_API fc2Error fc2GetLibraryVersion (fc2Version *pVersion)
 Get library version.
- FLYCAPTURE2_C_API fc2Error fc2LaunchBrowser (const char *pAddress)

 Launch a URL in the system default browser.
- FLYCAPTURE2_C_API fc2Error fc2LaunchHelp (const char *pFileName)

 Open a CHM file in the system default CHM viewer.
- FLYCAPTURE2_C_API fc2Error fc2LaunchCommand (const char *pCommand)

 Execute a command in the terminal.
- FLYCAPTURE2_C_API fc2Error fc2LaunchCommandAsync (const char *pCommand, fc2AsyncCommandCallback pCallback, void *pUserData)

 Execute a command in the terminal.
- FLYCAPTURE2_C_API const char * fc2ErrorToDescription (fc2Error error)

 Get a string representation of an error.

4.1.1 Function Documentation

4.1.1.1 FLYCAPTURE2_C_API fc2Error fc2AVIAppend (fc2AVIContext *AVIContext*, fc2Image * pImage)

Append an image to the AVI file.

Parameters:

AVIContext The AVI context to use. **pImage** The image to append.

Returns:

4.1.1.2 FLYCAPTURE2_C_API fc2Error fc2AVIClose (fc2AVIContext AVIContext)

Close the AVI file.

Parameters:

AVIContext The AVI context to use.

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.3 FLYCAPTURE2_C_API fc2Error fc2AVIOpen (fc2AVIContext *AVIContext*, const char * *pFileName*, fc2AVIOption * *pOption*)

Open an AVI file in preparation for writing Images to disk.

The size of AVI files is limited to 2GB. The filenames are automatically generated using the filename specified.

Parameters:

```
AVIContext The AVI context to use.pFileName The filename of the AVI file.pOption Options to apply to the AVI file.
```

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.4 FLYCAPTURE2_C_API fc2Error fc2CalculateImageStatistics (fc2Image * pImage, fc2ImageStatisticsContext * pImageStatisticsContext)

Calculate statistics associated with the image.

In order to collect statistics for a particular channel, the enabled flag for the channel must be set to true. Statistics can only be collected for images in Mono8, Mono16, RGB, RGBU, BGR and BGRU.

Parameters:

```
pImage The fc2Image to be used.pImageStatisticsContext The fc2ImageStatisticsContext to hold the statistics.
```

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.5 FLYCAPTURE2_C_API fc2Error fc2Connect (fc2Context context, fc2PGRGuid * guid)

Connects the camera object to the camera specified by the GUID.

Parameters:

context The fc2Context to be used.

guid The unique identifier for a specific camera on the PC.

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.6 FLYCAPTURE2_C_API fc2Error fc2ConvertImage (fc2Image * pImageIn, fc2Image * pImageOut)

Parameters:

```
pImageIn
pImageOut
```

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.7 FLYCAPTURE2_C_API fc2Error fc2ConvertImageTo (fc2PixelFormat format, fc2Image * pImageIn, fc2Image * pImageOut)

Converts the current image buffer to the specified output format and stores the result in the specified image. The destination image does not need to be configured in any way before the call is made.

Parameters:

```
format Output format of the converted image.pImageIn Input image.pImageOut Output image.
```

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.8 FLYCAPTURE2_C_API fc2Error fc2CreateAVI (fc2AVIContext * pAVIContext)

Create a AVI context.

Parameters:

```
pAVIContext A AVI context.
```

Returns:

4.1.1.9 FLYCAPTURE2_C_API fc2Error fc2CreateContext (fc2Context * pContext)

Create a FC2 context for IIDC camaera.

This call must be made before any other calls that use a context will succeed.

Parameters:

pContext A pointer to the fc2Context to be created.

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.10 FLYCAPTURE2_C_API fc2Error fc2CreateGigEContext (fc2Context * pContext)

Create a FC2 context for a GigE Vision camera.

This call must be made before any other calls that use a context will succeed.

Parameters:

pContext A pointer to the fc2Context to be created.

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.11 FLYCAPTURE2_C_API fc2Error fc2CreateImage (fc2Image * pImage)

Create a fc2Image.

If externally allocated memory is to be used for the converted image, simply assigning the pData member of the fc2Image structure is insufficient. fc2SetImageData() should be called in order to populate the fc2Image structure correctly.

Parameters:

pImage Pointer to image to be created.

See also:

fc2SetImageData()

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.12 FLYCAPTURE2_C_API fc2Error fc2CreateImageStatistics (fc2ImageStatisticsContext * pImageStatisticsContext)

Create a statistics context.

Parameters:

pImageStatisticsContext A statistics context.

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.13 FLYCAPTURE2_C_API fc2Error fc2DestroyAVI (fc2AVIContext AVIContext)

Destroy a AVI context.

Parameters:

AVIContext A AVI context.

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.14 FLYCAPTURE2_C_API fc2Error fc2DestroyContext (fc2Context context)

Destroy the FC2 context.

This must be called when the user is finished with the context in order to prevent memory leaks.

Parameters:

context The context to be destroyed.

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.15 FLYCAPTURE2_C_API fc2Error fc2DestroyImage (fc2Image * image)

Destroy the fc2Image.

Parameters:

image Pointer to image to be destroyed.

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.16 FLYCAPTURE2_C_API fc2Error fc2DestroyImageStatistics (fc2ImageStatisticsContext imageStatisticsContext)

Destroy a statistics context.

Parameters:

imageStatisticsContext A statistics context.

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.17 FLYCAPTURE2_C_API fc2Error fc2DetermineBitsPerPixel (fc2PixelFormat format, unsigned int * pBitsPerPixel)

Calculate the bits per pixel for the specified pixel format.

Parameters:

```
format The pixel format.pBitsPerPixel The bits per pixel.
```

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.18 FLYCAPTURE2_C_API fc2Error fc2Disconnect (fc2Context context)

Disconnects the fc2Context from the camera.

Parameters:

context The fc2Context to be used.

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.19 FLYCAPTURE2_C_API fc2Error fc2DiscoverGigECameras (fc2Context context, fc2CameraInfo * gigECameras, unsigned int * arraySize)

Discover all cameras connected to the network even if they reside on a different subnet.

This is useful in situations where a GigE camera is using Persistent IP and the application's subnet is different from the device subnet. After discovering the camera, it is easy to use ForceIPAddressToCamera() to set a different IP configuration.

Parameters:

```
context The fc2Context to be used.gigECameras Pointer to an array of CameraInfo structures.arraySize Size of the array. Number of discovered cameras is returned in the same value.
```

Returns:

An Error indicating the success or failure of the function. If the error is PGRERROR_BUFFER_TOO_SMALL then arraySize will contain the minimum size needed for gigECameras array.

4.1.1.20 FLYCAPTURE2_C_API fc2Error fc2EnableLUT (fc2Context context, BOOL on)

Enable or disable LUT functionality on the camera.

Parameters:

```
context The fc2Context to be used.on Whether to enable or disable LUT.
```

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.21 FLYCAPTURE2_C_API const char* fc2ErrorToDescription (fc2Error error)

Get a string representation of an error.

Parameters:

error Error to be parsed.

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.22 FLYCAPTURE2_C_API fc2Error fc2FireBusReset (fc2Context context, fc2PGRGuid * pGuid)

Fire a bus reset.

The actual bus reset is only fired for the specified 1394 bus, but it will effectively cause a global bus reset for the library.

Parameters:

```
context The fc2Context to be used.pGuid PGRGuid of the camera or the device to cause bus reset.
```

Returns:

An Error indicating the success or failure of the function.

4.1.1.23 FLYCAPTURE2_C_API fc2Error fc2FireSoftwareTrigger (fc2Context context)

Parameters:

context The fc2Context to be used.

Returns:

4.1.1.24 FLYCAPTURE2_C_API fc2Error fc2FireSoftwareTriggerBroadcast (fc2Context context)

Fire the software trigger according to the DCAM specifications.

Parameters:

context The fc2Context to be used.

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.25 FLYCAPTURE2_C_API fc2Error fc2ForceIPAddressToCamera (fc2Context context, fc2MACAddress macAddress, fc2IPAddress ipAddress, fc2IPAddress subnetMask, fc2IPAddress defaultGateway)

Force the camera with the specific MAC address to the specified IP address, subnet mask and default gateway.

This is useful in situations where a GigE Vision camera is using Persistent IP and the application's subnet is different from the device subnet.

Parameters:

```
context The fc2Context to be used.
macAddress MAC address of the camera.
ipAddress IP address to set on the camera.
subnetMask Subnet mask to set on the camera.
```

defaultGateway Default gateway to set on the camera.

Returns:

An Error indicating the success or failure of the function.

4.1.1.26 FLYCAPTURE2_C_API fc2Error fc2GetActiveLUTBank (fc2Context *context*, unsigned int * pActiveBank)

Get the LUT bank that is currently being used.

For cameras with PGR LUT, the active bank is always 0.

Parameters:

```
context The fc2Context to be used.pActiveBank The currently active bank.
```

Returns:

4.1.1.27 FLYCAPTURE2_C_API fc2Error fc2GetCameraFromIndex (fc2Context context, unsigned int index, fc2PGRGuid * pGuid)

Gets the PGRGuid for a camera on the PC.

It uniquely identifies the camera specified by the index and is used to identify the camera during a fc2Connect() call.

Parameters:

```
context The fc2Context to be used.index Zero based index of camera.pGuid Unique PGRGuid for the camera.
```

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.28 FLYCAPTURE2_C_API fc2Error fc2GetCameraFromSerialNumber (fc2Context context, unsigned int serialNumber, fc2PGRGuid * pGuid)

Gets the PGRGuid for a camera on the PC.

It uniquely identifies the camera specified by the serial number and is used to identify the camera during a fc2Connect() call.

Parameters:

```
context The fc2Context to be used.serialNumber Serial number of camera.pGuid Unique PGRGuid for the camera.
```

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.29 FLYCAPTURE2_C_API fc2Error fc2GetCameraInfo (fc2Context *context*, fc2CameraInfo * *pCameraInfo*)

Retrieves information from the camera such as serial number, model name and other camera information.

Parameters:

```
context The fc2Context to be used.pCameraInfo Pointer to the camera information structure to be filled.
```

Returns:

4.1.1.30 FLYCAPTURE2_C_API fc2Error fc2GetCameraSerialNumberFromIndex (fc2Context context, unsigned int index, unsigned int * pSerialNumber)

Gets the serial number of the camera with the specified index.

Parameters:

context The fc2Context to be used.index Zero based index of desired camera.pSerialNumber Serial number of camera.

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.31 FLYCAPTURE2_C_API fc2Error fc2GetConfiguration (fc2Context *context*, fc2Config * *config*)

Get the configuration associated with the camera.

Parameters:

context The fc2Context to be used.config Pointer to the configuration structure to be filled.

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.32 FLYCAPTURE2_C_API fc2Error fc2GetDefaultColorProcessing (fc2ColorProcessingAlgorithm * pDefaultMethod)

Get the default color processing algorithm.

Parameters:

pDefaultMethod The default color processing algorithm.

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.33 FLYCAPTURE2_C_API fc2Error fc2GetDefaultOutputFormat (fc2PixelFormat * *pFormat*)

Get the default output pixel format.

Parameters:

pFormat The default pixel format.

Returns:

4.1.1.34 FLYCAPTURE2_C_API fc2Error fc2GetDeviceFromIndex (fc2Context *context*, unsigned int *index*, fc2PGRGuid * *pGuid*)

Gets the PGRGuid for a device.

It uniquely identifies the device specified by the index.

Parameters:

```
context The fc2Context to be used.index Zero based index of device.pGuid Unique PGRGuid for the device.
```

See also:

fc2GetNumOfDevices()

Returns:

An Error indicating the success or failure of the function.

4.1.1.35 FLYCAPTURE2_C_API fc2Error fc2GetEmbeddedImageInfo (fc2Context context, fc2EmbeddedImageInfo * pInfo)

Get the current status of the embedded image information register, as well as the availability of each embedded property.

Parameters:

```
context The fc2Context to be used.pInfo Structure to be filled.
```

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.36 FLYCAPTURE2_C_API fc2Error fc2GetFormat7Configuration (fc2Context context, fc2Format7ImageSettings * imageSettings*, unsigned int * packetSize*, float * percentage*)

Get the current Format7 configuration from the camera.

This call will only succeed if the camera is already in Format7.

Parameters:

```
context The fc2Context to be used.imageSettings Current image settings.packetSize Current packet size.percentage Current packet size as a percentage.
```

Returns:

4.1.1.37 FLYCAPTURE2_C_API fc2Error fc2GetFormat7Info (fc2Context context, fc2Format7Info * info, BOOL * pSupported)

Retrieve the availability of Format7 custom image mode and the camera capabilities for the specified Format7 mode.

The mode must be specified in the Format7Info structure in order for the function to succeed.

Parameters:

context The fc2Context to be used.

info Structure to be filled with the capabilities of the specified mode and the current state in the specified mode.

pSupported Whether the specified mode is supported.

Returns:

A fc2Error indicating the success or failure of the function.

- **4.1.1.38** FLYCAPTURE2_C_API fc2Error fc2GetGigEImageBinningSettings (fc2Context *context*, unsigned int * *horzBinnningValue*) unsigned int * *vertBinnningValue*)
- **4.1.1.39** FLYCAPTURE2_C_API fc2Error fc2GetGigEImageSettings (fc2Context context, fc2GigEImageSettings * pImageSettings)
- 4.1.1.40 FLYCAPTURE2_C_API fc2Error fc2GetGigEImageSettingsInfo (fc2Context context, fc2GigEImageSettingsInfo * pInfo)
- 4.1.1.41 FLYCAPTURE2_C_API fc2Error fc2GetGigEImagingMode (fc2Context context, fc2Mode * mode)
- **4.1.1.42** FLYCAPTURE2_C_API fc2Error fc2GetGigEProperty (fc2Context *context*, fc2GigEProperty * *pGigEProp*)

Get the specified GigEProperty.

The GigEPropertyType field must be set in order for this function to succeed.

Parameters:

```
context The fc2Context to be used.pGigEProp The GigE property to get.
```

Returns:

An Error indicating the success or failure of the function.

- 4.1.1.43 FLYCAPTURE2_C_API fc2Error fc2GetGigEStreamChannelInfo (fc2Context context, unsigned int channel, fc2GigEStreamChannel * pChannel)
- **4.1.1.44** FLYCAPTURE2_C_API fc2Error fc2GetGPIOPinDirection (fc2Context *context*, unsigned int *pin*, unsigned int * *pDirection*)

Get the GPIO pin direction for the specified pin.

This is not a required call when using the trigger or strobe functions as the pin direction is set automatically internally.

Parameters:

```
context The fc2Context to be used.pin Pin to get the direction for.pDirection Direction of the pin. 0 for input, 1 for output.
```

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.45 FLYCAPTURE2_C_API fc2Error fc2GetImageData (fc2Image * pImage, unsigned char ** ppData)

Get a pointer to the data associated with the image.

This function is considered unsafe. The pointer returned could be invalidated if the buffer is resized or released. The pointer may also be invalidated if the Image object is passed to fc2RetrieveBuffer().

Parameters:

```
pImage The fc2Image to be used.ppData A pointer to the image data.
```

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.46 FLYCAPTURE2_C_API fc2Error fc2GetImageStatistics (fc2ImageStatisticsContext imageStatisticsContext, fc2StatisticsChannel channel, unsigned int * pRangeMin, unsigned int * pRangeMax, unsigned int * pPixelValueMin, unsigned int * pPixelValueMax, unsigned int * pNumPixelValues, float * pPixelValueMean, int ** ppHistogram)

Get all statistics for the image.

Parameters:

```
imageStatisticsContext The statistics context.
channel The statistics channel.
pRangeMin The minimum possible value.
pRangeMax The maximum possible value.
pPixelValueMin The minimum pixel value.
pPixelValueMax The maximum pixel value.
pNumPixelValues The number of unique pixel values.
pPixelValueMean The mean of the image.
ppHistogram Pointer to an array containing the histogram.
```

Returns:

4.1.1.47 FLYCAPTURE2_C_API fc2TimeStamp fc2GetImageTimeStamp (fc2Image * pImage)

Get the timestamp data associated with the image.

Parameters:

pImage The fc2Image to be used.

Returns:

Timestamp data associated with the image.

4.1.1.48 FLYCAPTURE2_C_API fc2Error fc2GetInterfaceTypeFromGuid (fc2Context context, fc2PGRGuid * pGuid, fc2InterfaceType * pInterfaceType)

Gets the interface type associated with a PGRGuid.

This is useful in situations where there is a need to enumerate all cameras for a particular interface.

Parameters:

```
context The fc2Context to be used.pGuid The PGRGuid to get the interface for.pInterfaceType The interface type of the PGRGuid.
```

Returns:

4.1.1.49 FLYCAPTURE2_C_API fc2Error fc2GetLibraryVersion (fc2Version * pVersion)

Get library version.

Parameters:

pVersion Structure to receive the library version.

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.50 FLYCAPTURE2_C_API fc2Error fc2GetLUTBankInfo (fc2Context context, unsigned int bank, BOOL * pReadSupported, BOOL * pWriteSupported)

Query the read/write status of a single LUT bank.

Parameters:

```
context The fc2Context to be used.bank The bank to query.pReadSupported Whether reading from the bank is supported.
```

pWriteSupported Whether writing to the bank is supported.

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.51 FLYCAPTURE2_C_API fc2Error fc2GetLUTChannel (fc2Context *context*, unsigned int *bank*, unsigned int *channel*, unsigned int *sizeEntries*, unsigned int * *pEntries*)

Get the LUT channel settings from the camera.

pEntries Array to store LUT entries.

Parameters:

```
context The fc2Context to be used.bank Bank to retrieve.channel Channel to retrieve.sizeEntries Number of entries in LUT table to read.
```

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.52 FLYCAPTURE2_C_API fc2Error fc2GetLUTInfo (fc2Context context, fc2LUTData * pData)

Query if LUT support is available on the camera.

Parameters:

```
context The fc2Context to be used.pData The LUT structure to be filled.
```

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.53 FLYCAPTURE2_C_API fc2Error fc2GetMemoryChannel (fc2Context *context*, unsigned int * *pCurrentChannel*)

Retrieve the current memory channel from the camera.

Parameters:

```
context The fc2Context to be used.pCurrentChannel Current memory channel.
```

Returns:

4.1.1.54 FLYCAPTURE2_C_API fc2Error fc2GetMemoryChannelInfo (fc2Context *context*, unsigned int * *pNumChannels*)

Query the camera for memory channel support.

If the number of channels is 0, then memory channel support is not available.

Parameters:

context The fc2Context to be used.pNumChannels Number of memory channels supported.

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.55 FLYCAPTURE2_C_API fc2Error fc2GetNumOfCameras (fc2Context context, unsigned int * pNumCameras)

Gets the number of cameras attached to the PC.

Parameters:

context The fc2Context to be used.pNumCameras Number of cameras detected.

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.56 FLYCAPTURE2_C_API fc2Error fc2GetNumOfDevices (fc2Context context, unsigned int * pNumDevices)

Gets the number of devices.

This may include hubs, host controllers and other hardware devices (including cameras).

Parameters:

context The fc2Context to be used.pNumDevices The number of devices found.

Returns:

An Error indicating the success or failure of the function.

4.1.1.57 FLYCAPTURE2_C_API fc2Error fc2GetNumStreamChannels (fc2Context context, unsigned int * numChannels)

4.1.1.58 FLYCAPTURE2_C_API fc2Error fc2GetProperty (fc2Context *context*, fc2Property * *prop*)

Reads the settings for the specified property from the camera.

The property type must be specified in the fc2Property structure passed into the function in order for the function to succeed. If auto is on, the integer and abs values returned may not be consistent with each other.

Parameters:

```
context The fc2Context to be used.prop Pointer to the Property structure to be filled.
```

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.59 FLYCAPTURE2_C_API fc2Error fc2GetPropertyInfo (fc2Context *context*, fc2PropertyInfo * *propInfo*)

Retrieves information about the specified camera property.

The property type must be specified in the fc2PropertyInfo structure passed into the function in order for the function to succeed.

Parameters:

```
context The fc2Context to be used.propInfo Pointer to the PropertyInfo structure to be filled.
```

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.60 FLYCAPTURE2_C_API const char* fc2GetRegisterString (unsigned int registerVal)

Returns a text representation of the register value.

Parameters:

registerVal The register value to query.

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.61 FLYCAPTURE2_C_API fc2Error fc2GetStrobe (fc2Context *context*, fc2StrobeControl * *strobeControl*)

Retrieve current strobe settings from the camera.

The strobe pin must be specified in the structure before being passed in to the function.

Parameters:

```
context The fc2Context to be used.strobeControl Structure to receive strobe settings.
```

Returns:

4.1.1.62 FLYCAPTURE2_C_API fc2Error fc2GetStrobeInfo (fc2Context context, fc2StrobeInfo * strobeInfo)

Retrieve strobe information from the camera.

Parameters:

context The fc2Context to be used.strobeInfo Structure to receive strobe information.

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.63 FLYCAPTURE2_C_API fc2Error fc2GetSystemInfo (fc2SystemInfo * pSystemInfo)

Get system information.

Parameters:

pSystemInfo Structure to receive system information.

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.64 FLYCAPTURE2_C_API fc2Error fc2GetTriggerDelay (fc2Context *context*, fc2TriggerDelay * *triggerDelay*)

Retrieve current trigger delay settings from the camera.

Parameters:

context The fc2Context to be used.triggerDelay Structure to receive trigger delay settings.

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.65 FLYCAPTURE2_C_API fc2Error fc2GetTriggerDelayInfo (fc2Context context, fc2TriggerDelayInfo * triggerDelayInfo)

Retrieve trigger delay information from the camera.

Parameters:

context The fc2Context to be used.

Returns:

A fc2Error indicating the success or failure of the function.

triggerDelayInfo Structure to receive trigger delay information.

4.1.1.66 FLYCAPTURE2_C_API fc2Error fc2GetTriggerMode (fc2Context *context*, fc2TriggerMode * *triggerMode*)

Retrieve current trigger settings from the camera.

Parameters:

context The fc2Context to be used.triggerMode Structure to receive trigger mode settings.

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.67 FLYCAPTURE2_C_API fc2Error fc2GetTriggerModeInfo (fc2Context context, fc2TriggerModeInfo * triggerModeInfo)

Retrieve trigger information from the camera.

Parameters:

context The fc2Context to be used.triggerModeInfo Structure to receive trigger information.

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.68 FLYCAPTURE2_C_API fc2Error fc2GetVideoModeAndFrameRate (fc2Context context, fc2VideoMode * videoMode, fc2FrameRate * frameRate)

Get the current video mode and frame rate from the camera.

If the camera is in Format7, the video mode will be VIDEOMODE_FORMAT7 and the frame rate will be FRAMERATE_FORMAT7.

Parameters:

```
context The fc2Context to be used.videoMode Current video mode.frameRate Current frame rate.
```

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.69 FLYCAPTURE2_C_API fc2Error fc2GetVideoModeAndFrameRateInfo (fc2Context context, fc2VideoMode videoMode, fc2FrameRate frameRate, BOOL * pSupported)

Query the camera to determine if the specified video mode and frame rate is supported.

Parameters:

```
context The fc2Context to be used.videoMode Video mode to check.frameRate Frame rate to check.pSupported Whether the video mode and frame rate is supported.
```

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.70 FLYCAPTURE2_C_API fc2Error fc2LaunchBrowser (const char * pAddress)

Launch a URL in the system default browser.

Parameters:

pAddress URL to open in browser.

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.71 FLYCAPTURE2_C_API fc2Error fc2LaunchCommand (const char * pCommand)

Execute a command in the terminal.

This is a blocking call that will return when the command completes.

Parameters:

pCommand Command to execute.

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.72 FLYCAPTURE2_C_API fc2Error fc2LaunchCommandAsync (const char * pCommand, fc2AsyncCommandCallback, void * pUserData)

Execute a command in the terminal.

This is a non-blocking call that will return immediately. The return value of the command can be retrieved in the callback.

Parameters:

```
pCommand Command to execute.pCallback Callback to fire when command is complete.pUserData Data pointer to pass to callback.
```

Returns:

4.1.1.73 FLYCAPTURE2_C_API fc2Error fc2LaunchHelp (const char * pFileName)

Open a CHM file in the system default CHM viewer.

Parameters:

pFileName Filename of CHM file to open.

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.74 FLYCAPTURE2_C_API fc2Error fc2QueryGigEImagingMode (fc2Context context, fc2Mode mode, BOOL * isSupported)

4.1.1.75 FLYCAPTURE2_C_API fc2Error fc2ReadGVCPMemory (fc2Context context, unsigned int address, unsigned char * pBuffer, unsigned int length)

Read a GVCP memory block.

Parameters:

```
context The fc2Context to be used.address GVCP address to be read from.pBuffer Array containing data to be written.length Size of array, in quadlets.
```

Returns:

An Error indicating the success or failure of the function.

4.1.1.76 FLYCAPTURE2_C_API fc2Error fc2ReadGVCPRegister (fc2Context context, unsigned int address, unsigned int * pValue)

Read a GVCP register.

Parameters:

```
context The fc2Context to be used.address GVCP address to be read from.pValue The value that is read.
```

Returns:

4.1.1.77 FLYCAPTURE2_C_API fc2Error fc2ReadGVCPRegisterBlock (fc2Context context, unsigned int address, unsigned int *pBuffer, unsigned int length)

Read a GVCP register block.

Parameters:

```
context The fc2Context to be used.address GVCP address to be read from.pBuffer Array containing data to be written.length Size of array, in quadlets.
```

Returns:

An Error indicating the success or failure of the function.

4.1.1.78 FLYCAPTURE2_C_API fc2Error fc2ReadRegister (fc2Context *context*, unsigned int *address*, unsigned int * *pValue*)

Read the specified register from the camera.

Parameters:

```
context The fc2Context to be used.address DCAM address to be read from.pValue The value that is read.
```

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.79 FLYCAPTURE2_C_API fc2Error fc2ReadRegisterBlock (fc2Context context, unsigned short addressHigh, unsigned int addressLow, unsigned int *pBuffer, unsigned int length)

Write to the specified register block on the camera.

Parameters:

```
context The fc2Context to be used.
addressHigh Top 16 bits of the 48 bit absolute address to read from.
addressLow Bottom 32 bits of the 48 bits absolute address to read from.
pBuffer Array to store read data.
length Size of array, in quadlets.
```

Returns:

4.1.1.80 FLYCAPTURE2_C_API fc2Error fc2RegisterCallback (fc2Context context, fc2BusEventCallback enumCallback, fc2BusCallbackType callbackType, void * pParameter, fc2CallbackHandle * pCallbackHandle)

Register a callback function that will be called when the specified callback event occurs.

Parameters:

```
context The fc2Context to be used.
enumCallback Pointer to function that will receive the callback.
callbackType Type of callback to register for.
pParameter Callback parameter to be passed to callback.
pCallbackHandle Unique callback handle used for unregistering callback.
```

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.81 FLYCAPTURE2_C_API fc2Error fc2RescanBus (fc2Context context)

Force a rescan of the buses.

This does not trigger a bus reset. However, any current connections to a Camera object will be invalidated.

Returns:

An Error indicating the success or failure of the function.

4.1.1.82 FLYCAPTURE2_C_API fc2Error fc2RestoreFromMemoryChannel (fc2Context *context*, unsigned int *channel*)

Restore the specfied current memory channel.

Parameters:

```
context The fc2Context to be used.channel Memory channel to restore from.
```

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.83 FLYCAPTURE2_C_API fc2Error fc2RetrieveBuffer (fc2Context *context*, fc2Image * *pImage*)

Retrieves the the next image object containing the next image.

Parameters:

```
context The fc2Context to be used.pImage Pointer to fc2Image to store image data.
```

Returns:

4.1.1.84 FLYCAPTURE2_C_API fc2Error fc2SaveImage (fc2Image * *pImage*, const char * *pFilename*, fc2ImageFileFormat *format*)

Save the image to the specified file name with the file format specified.

Parameters:

```
pImage The fc2Image to be used.pFilename Filename to save image with.format File format to save in.
```

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.85 FLYCAPTURE2_C_API fc2Error fc2SaveImageWithOption (fc2Image * pImage, const char * pFilename, fc2ImageFileFormat format, void * pOption)

Save the image to the specified file name with the file format specified.

Parameters:

```
pImage The fc2Image to be used.pFilename Filename to save image with.format File format to save in.pOption Options for saving image.
```

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.86 FLYCAPTURE2_C_API fc2Error fc2SaveToMemoryChannel (fc2Context *context*, unsigned int *channel*)

Save the current settings to the specfied current memory channel.

Parameters:

```
context The fc2Context to be used.channel Memory channel to save to.
```

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.87 FLYCAPTURE2_C_API fc2Error fc2SetActiveLUTBank (fc2Context *context*, unsigned int *activeBank*)

Set the LUT bank that will be used.

Parameters:

context The fc2Context to be used.activeBank The bank to be set as active.

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.88 FLYCAPTURE2_C_API fc2Error fc2SetCallback (fc2Context *context*, fc2ImageEventCallback *pCallbackFn*, void * *pCallbackData*)

Sets the callback data to be used on completion of image transfer.

To clear the current stored callback data, pass in NULL for both callback arguments.

Parameters:

```
context The fc2Context to be used.pCallbackFn A function to be called when a new image is received.pCallbackData A pointer to data that can be passed to the callback function.
```

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.89 FLYCAPTURE2_C_API fc2Error fc2SetConfiguration (fc2Context *context*, fc2Config * *config*)

Set the configuration associated with the camera.

Parameters:

```
context The fc2Context to be used.config Pointer to the configuration structure to be used.
```

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.90 FLYCAPTURE2_C_API fc2Error fc2SetDefaultColorProcessing (fc2ColorProcessingAlgorithm defaultMethod)

Set the default color processing algorithm.

This method will be used for any image with the DEFAULT algorithm set. The method used is determined at the time of the Convert() call, therefore the most recent execution of this function will take precedence. The default setting is shared within the current process.

Parameters:

defaultMethod The color processing algorithm to set.

Returns:

4.1.1.91 FLYCAPTURE2_C_API fc2Error fc2SetDefaultOutputFormat (fc2PixelFormat format)

Set the default output pixel format.

This format will be used for any call to Convert() that does not specify an output format. The format used will be determined at the time of the Convert() call, therefore the most recent execution of this function will take precedence. The default is shared within the current process.

Parameters:

format The output pixel format to set.

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.92 FLYCAPTURE2_C_API fc2Error fc2SetEmbeddedImageInfo (fc2Context *context*, fc2EmbeddedImageInfo * *pInfo*)

Sets the on/off values of the embedded image information structure to the camera.

Parameters:

```
context The fc2Context to be used.pInfo Structure to be used.
```

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.93 FLYCAPTURE2_C_API fc2Error fc2SetFormat7Configuration (fc2Context context, fc2Format7ImageSettings * imageSettings, float percentSpeed)

Set the current Format7 configuration to the camera.

Parameters:

```
context The fc2Context to be used.imageSettings Image settings to be written to the camera.percentSpeed Packet size as a percentage to be written to the camera.
```

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.94 FLYCAPTURE2_C_API fc2Error fc2SetFormat7ConfigurationPacket (fc2Context context, fc2Format7ImageSettings * imageSettings, unsigned int packetSize)

Set the current Format7 configuration to the camera.

Parameters:

context The fc2Context to be used.

imageSettings Image settings to be written to the camera. *packetSize* Packet size to be written to the camera.

Returns:

A fc2Error indicating the success or failure of the function.

- 4.1.1.95 FLYCAPTURE2_C_API fc2Error fc2SetGigEImageBinningSettings (fc2Context context, unsigned int horzBinnningValue, unsigned int vertBinnningValue)
- 4.1.1.96 FLYCAPTURE2_C_API fc2Error fc2SetGigEImageSettings (fc2Context context, const fc2GigEImageSettings * pImageSettings)
- 4.1.1.97 FLYCAPTURE2_C_API fc2Error fc2SetGigEImagingMode (fc2Context context, fc2Mode mode)
- **4.1.1.98** FLYCAPTURE2_C_API fc2Error fc2SetGigEProperty (fc2Context *context*, const fc2GigEProperty * *pGigEProp*)

Set the specified GigEProperty.

The GigEPropertyType field must be set in order for this function to succeed.

Parameters:

```
context The fc2Context to be used.pGigEProp The GigE property to set.
```

Returns:

An Error indicating the success or failure of the function.

- **4.1.1.99** FLYCAPTURE2_C_API fc2Error fc2SetGigEStreamChannelInfo (fc2Context *context*, unsigned int *channel*, fc2GigEStreamChannel * *pChannel*)
- 4.1.1.100 FLYCAPTURE2_C_API fc2Error fc2SetGPIOPinDirection (fc2Context context, unsigned int pin, unsigned int direction)

Set the GPIO pin direction for the specified pin.

This is useful if there is a need to set the pin into an input pin (i.e. to read the voltage) off the pin without setting it as a trigger source. This is not a required call when using the trigger or strobe functions as the pin direction is set automatically internally.

Parameters:

```
context The fc2Context to be used.pin Pin to get the direction for.direction Direction of the pin. 0 for input, 1 for output.
```

Returns:

4.1.1.101 FLYCAPTURE2_C_API fc2Error fc2SetGPIOPinDirectionBroadcast (fc2Context context, unsigned int pin, unsigned int direction)

Set the GPIO pin direction for the specified pin.

This is useful if there is a need to set the pin into an input pin (i.e. to read the voltage) off the pin without setting it as a trigger source. This is not a required call when using the trigger or strobe functions as the pin direction is set automatically internally.

Parameters:

```
context The fc2Context to be used.pin Pin to get the direction for.direction Direction of the pin. 0 for input, 1 for output.
```

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.102 FLYCAPTURE2_C_API fc2Error fc2SetImageData (fc2Image * pImage, const unsigned char * pData, unsigned int dataSize)

Set the data of the Image object.

Ownership of the image buffer is not transferred to the Image object. It is the user's responsibility to delete the buffer when it is no longer in use.

Parameters:

```
pImage The fc2Image to be used.pData Pointer to the image buffer.dataSize Size of the image buffer.
```

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.103 FLYCAPTURE2_C_API fc2Error fc2SetImageDimensions (fc2Image * pImage, unsigned int rows, unsigned int cols, unsigned int stride, fc2PixelFormat pixelFormat, fc2BayerTileFormat bayerFormat)

Sets the dimensions of the image object.

Parameters:

```
pImage The fc2Image to be used.
rows Number of rows to set.
cols Number of cols to set.
stride Stride to set.
pixelFormat Pixel format to set.
bayerFormat Bayer tile format to set.
```

Returns:

4.1.1.104 FLYCAPTURE2_C_API fc2Error fc2SetLUTChannel (fc2Context *context*, unsigned int *bank*, unsigned int *channel*, unsigned int *sizeEntries*, unsigned int * *pEntries*)

Set the LUT channel settings to the camera.

Parameters:

context The fc2Context to be used.

bank Bank to set.

channel Channel to set.

sizeEntries Number of entries in LUT table to write.

pEntries Array containing LUT entries to write.

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.105 FLYCAPTURE2_C_API fc2Error fc2SetProperty (fc2Context *context*, fc2Property * *prop*)

Writes the settings for the specified property to the camera.

The property type must be specified in the Property structure passed into the function in order for the function to succeed. The absControl flag controls whether the absolute or integer value is written to the camera.

Parameters:

context The fc2Context to be used.

prop Pointer to the Property structure to be used.

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.106 FLYCAPTURE2_C_API fc2Error fc2SetPropertyBroadcast (fc2Context context, fc2Property * prop)

Writes the settings for the specified property to the camera.

The property type must be specified in the Property structure passed into the function in order for the function to succeed. The absControl flag controls whether the absolute or integer value is written to the camera.

Parameters:

context The fc2Context to be used.

prop Pointer to the Property structure to be used.

Returns:

4.1.1.107 FLYCAPTURE2_C_API fc2Error fc2SetStrobe (fc2Context context, fc2StrobeControl * strobeControl)

Set current strobe settings to the camera.

The strobe pin must be specified in the structure before being passed in to the function.

Parameters:

context The fc2Context to be used.strobeControl Structure providing strobe settings.

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.108 FLYCAPTURE2_C_API fc2Error fc2SetStrobeBroadcast (fc2Context context, fc2StrobeControl * strobeControl)

Set current strobe settings to the camera.

The strobe pin must be specified in the structure before being passed in to the function.

Parameters:

context The fc2Context to be used.strobeControl Structure providing strobe settings.

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.109 FLYCAPTURE2_C_API fc2Error fc2SetTriggerDelay (fc2Context *context*, fc2TriggerDelay * *triggerDelay*)

Set the specified trigger delay settings to the camera.

Parameters:

context The fc2Context to be used.triggerDelay Structure providing trigger delay settings.

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.110 FLYCAPTURE2_C_API fc2Error fc2SetTriggerDelayBroadcast (fc2Context context, fc2TriggerDelay * triggerDelay)

Set the specified trigger delay settings to the camera.

Parameters:

context The fc2Context to be used.triggerDelay Structure providing trigger delay settings.

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.111 FLYCAPTURE2_C_API fc2Error fc2SetTriggerMode (fc2Context context, fc2TriggerMode * triggerMode)

Set the specified trigger settings to the camera.

Parameters:

context The fc2Context to be used.triggerMode Structure providing trigger mode settings.

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.112 FLYCAPTURE2_C_API fc2Error fc2SetTriggerModeBroadcast (fc2Context context, fc2TriggerMode * triggerMode)

Set the specified trigger settings to the camera.

Parameters:

context The fc2Context to be used.triggerMode Structure providing trigger mode settings.

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.113 FLYCAPTURE2_C_API fc2Error fc2SetUserBuffers (fc2Context context, unsigned char *const ppMemBuffers, int size, int nNumBuffers)

Specify user allocated buffers to use as image data buffers.

Parameters:

context The fc2Context to be used.

ppMemBuffers Pointer to memory buffers to be written to. The size of the data being should be be equal to (size * numBuffers) or larger.

size The size of each buffer (in bytes).

nNumBuffers Number of buffers in the array.

Returns:

4.1.1.114 FLYCAPTURE2_C_API fc2Error fc2SetVideoModeAndFrameRate (fc2Context context, fc2VideoMode videoMode, fc2FrameRate frameRate)

Set the specified video mode and frame rate to the camera.

It is not possible to set the camera to VIDEOMODE_FORMAT7 or FRAMERATE_FORMAT7. Use the Format7 functions to set the camera into Format7.

Parameters:

context The fc2Context to be used.videoMode Video mode to set to camera.

frameRate Frame rate to set to camera.

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.115 FLYCAPTURE2_C_API fc2Error fc2StartCapture (fc2Context context)

Starts isochronous image capture.

It will use either the current video mode or the most recently set video mode of the camera.

Parameters:

context The fc2Context to be used.

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.116 FLYCAPTURE2_C_API fc2Error fc2StartCaptureCallback (fc2Context context, fc2ImageEventCallback pCallbackFn, void * pCallbackData)

Starts isochronous image capture.

It will use either the current video mode or the most recently set video mode of the camera. The callback function is called when a new image is received from the camera.

Parameters:

context The fc2Context to be used.

pCallbackFn A function to be called when a new image is received.

pCallbackData A pointer to data that can be passed to the callback function. A NULL pointer is acceptable.

Returns:

4.1.1.117 FLYCAPTURE2_C_API fc2Error fc2StartSyncCapture (unsigned int *numCameras*, fc2Context * *pContexts*)

Starts synchronized isochronous image capture on multiple cameras.

Parameters:

```
numCameras Number of fc2Contexts in the ppCameras array. pContexts Array of fc2Contexts.
```

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.118 FLYCAPTURE2_C_API fc2Error fc2StartSyncCaptureCallback (unsigned int numCameras, fc2Context * pContexts, fc2ImageEventCallback * pCallbackFns, void ** pCallbackDataArray)

Starts synchronized isochronous image capture on multiple cameras.

Parameters:

```
    numCameras Number of fc2Contexts in the ppCameras array.
    pContexts Array of fc2Contexts.
    pCallbackFns Array of callback functions for each camera.
    pCallbackDataArray Array of callback data pointers.
```

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.119 FLYCAPTURE2_C_API fc2Error fc2StopCapture (fc2Context context)

Stops isochronous image transfer and cleans up all associated resources.

Parameters:

context The fc2Context to be used.

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.120 FLYCAPTURE2_C_API fc2Error fc2UnregisterCallback (fc2Context context, fc2CallbackHandle callbackHandle)

Unregister a callback function.

Parameters:

context The fc2Context to be used.

callbackHandle Unique callback handle.

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.121 FLYCAPTURE2_C_API fc2Error fc2ValidateFormat7Settings (fc2Context context, fc2Format7ImageSettings * imageSettings, BOOL * settingsAreValid, fc2Format7PacketInfo * packetInfo)

Validates Format7ImageSettings structure and returns valid packet size information if the image settings are valid.

The current image settings are cached while validation is taking place. The cached settings are restored when validation is complete.

Parameters:

```
context The fc2Context to be used.
imageSettings Structure containing the image settings.
settingsAreValid Whether the settings are valid.
packetInfo Packet size information that can be used to determine a valid packet size.
```

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.122 FLYCAPTURE2_C_API fc2Error fc2WriteGVCPMemory (fc2Context *context*, unsigned int *address*, const unsigned char * *pBuffer*, unsigned int *length*)

Write a GVCP memory block.

Parameters:

```
context The fc2Context to be used.address GVCP address to be write to.pBuffer Array containing data to be written.length Size of array, in quadlets.
```

Returns:

An Error indicating the success or failure of the function.

4.1.1.123 FLYCAPTURE2_C_API fc2Error fc2WriteGVCPRegister (fc2Context context, unsigned int address, unsigned int value)

Write a GVCP register.

Parameters:

context The fc2Context to be used.

```
address GVCP address to be written to.
value The value to be written.
```

Returns:

An Error indicating the success or failure of the function.

4.1.1.124 FLYCAPTURE2_C_API fc2Error fc2WriteGVCPRegisterBlock (fc2Context context, unsigned int address, const unsigned int *pBuffer, unsigned int length)

Write a GVCP register block.

Parameters:

```
context The fc2Context to be used.address GVCP address to be write to.pBuffer Array containing data to be written.length Size of array, in quadlets.
```

Returns:

An Error indicating the success or failure of the function.

4.1.1.125 FLYCAPTURE2_C_API fc2Error fc2WriteGVCPRegisterBroadcast (fc2Context context, unsigned int address, unsigned int value)

Write a GVCP register with broadcast.

Parameters:

```
context The fc2Context to be used.address GVCP address to be written to.value The value to be written.
```

Returns:

An Error indicating the success or failure of the function.

4.1.1.126 FLYCAPTURE2_C_API fc2Error fc2WriteRegister (fc2Context context, unsigned int address, unsigned int value)

Write to the specified register on the camera.

Parameters:

```
context The fc2Context to be used.address DCAM address to be written to.value The value to be written.
```

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.127 FLYCAPTURE2_C_API fc2Error fc2WriteRegisterBlock (fc2Context context, unsigned short addressHigh, unsigned int addressLow, const unsigned int *pBuffer, unsigned int length)

Write to the specified register block on the camera.

Parameters:

```
context The fc2Context to be used.
addressHigh Top 16 bits of the 48 bit absolute address to write to.
addressLow Bottom 32 bits of the 48 bits absolute address to write to.
pBuffer Array containing data to be written.
length Size of array, in quadlets.
```

Returns:

A fc2Error indicating the success or failure of the function.

4.1.1.128 FLYCAPTURE2_C_API fc2Error fc2WriteRegisterBroadcast (fc2Context context, unsigned int address, unsigned int value)

Write to the specified register on the camera with broadcast.

Parameters:

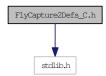
```
context The fc2Context to be used.address DCAM address to be written to.value The value to be written.
```

Returns:

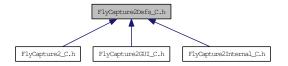
A fc2Error indicating the success or failure of the function.

4.2 FlyCapture2Defs_C.h File Reference

Include dependency graph for FlyCapture2Defs_C.h:



This graph shows which files directly or indirectly include this file:



Data Structures

• struct fc2PGRGuid

A GUID to the camera.

- struct fc2Image
- struct fc2SystemInfo
- struct fc2Version
- struct fc2Config
- struct fc2TriggerDelayInfo
- struct fc2TriggerDelay
- struct fc2TriggerModeInfo
- struct fc2TriggerMode
- struct fc2StrobeInfo
- struct fc2StrobeControl
- struct fc2Format7ImageSettings
- struct fc2Format7Info
- struct fc2Format7PacketInfo
- struct fc2IPAddress
- struct fc2MACAddress
- struct fc2GigEProperty
- struct fc2GigEStreamChannel
- struct fc2GigEConfig
- struct fc2GigEImageSettingsInfo
- struct fc2GigEImageSettings
- struct fc2TimeStamp
- struct fc2ConfigROM
- struct fc2CameraInfo
- struct fc2EmbeddedImageInfoProperty
- struct fc2EmbeddedImageInfo
- struct fc2ImageMetadata

- struct fc2LUTData
- struct fc2PNGOption
- struct fc2PPMOption
- struct fc2PGMOption
- struct fc2TIFFOption
- struct fc2JPEGOption
- struct fc2JPG2Option
- struct fc2AVIOption

Defines

- #define FALSE 0
- #define TRUE 1
- #define FULL_32BIT_VALUE 0x7FFFFFF
- #define MAX_STRING_LENGTH 512

Typedefs

- typedef int **BOOL**
- typedef void * fc2Context

A context to the FlyCapture2 C library.

• typedef void * fc2GuiContext

A context to the FlyCapture2 C GUI library.

• typedef void * fc2ImageImpl

An internal pointer used in the fc2Image structure.

• typedef void * fc2AVIContext

A context referring to the AVI recorder object.

• typedef void * fc2ImageStatisticsContext

A context referring to the ImageStatistics object.

- typedef void * fc2CallbackHandle
- typedef void(* fc2BusEventCallback)(void *pParameter, unsigned int serialNumber)
- typedef void(* fc2ImageEventCallback)(fc2Image *image, void *pCallbackData)
- typedef void(* fc2AsyncCommandCallback)(fc2Error retError, void *pUserData)

Enumerations

```
    enum fc2Error {
        FC2_ERROR_UNDEFINED = -1,
        FC2_ERROR_OK,
        FC2_ERROR_FAILED,
        FC2_ERROR_NOT_IMPLEMENTED,
        FC2_ERROR_FAILED_BUS_MASTER_CONNECTION,
```

- FC2_ERROR_NOT_CONNECTED,
- FC2_ERROR_INIT_FAILED,
- FC2_ERROR_NOT_INTITIALIZED,
- FC2_ERROR_INVALID_PARAMETER,
- FC2_ERROR_INVALID_SETTINGS,
- FC2_ERROR_INVALID_BUS_MANAGER,
- FC2_ERROR_MEMORY_ALLOCATION_FAILED,
- FC2_ERROR_LOW_LEVEL_FAILURE,
- FC2_ERROR_NOT_FOUND,
- FC2_ERROR_FAILED_GUID,
- FC2_ERROR_INVALID_PACKET_SIZE,
- FC2 ERROR INVALID MODE,
- FC2_ERROR_NOT_IN_FORMAT7,
- FC2_ERROR_NOT_SUPPORTED,
- FC2_ERROR_TIMEOUT,
- FC2 ERROR BUS MASTER FAILED,
- FC2_ERROR_INVALID_GENERATION,
- FC2_ERROR_LUT_FAILED,
- FC2_ERROR_IIDC_FAILED,
- FC2_ERROR_STROBE_FAILED,
- FC2_ERROR_TRIGGER_FAILED,
- FC2_ERROR_PROPERTY_FAILED,
- FC2_ERROR_PROPERTY_NOT_PRESENT,
- FC2_ERROR_REGISTER_FAILED,
- FC2_ERROR_READ_REGISTER_FAILED,
- FC2_ERROR_WRITE_REGISTER_FAILED,
- FC2_ERROR_ISOCH_FAILED,
- FC2_ERROR_ISOCH_ALREADY_STARTED,
- FC2_ERROR_ISOCH_NOT_STARTED,
- FC2_ERROR_ISOCH_START_FAILED,
- FC2_ERROR_ISOCH_RETRIEVE_BUFFER_FAILED,
- FC2_ERROR_ISOCH_STOP_FAILED,
- FC2 ERROR ISOCH SYNC FAILED,
- FC2_ERROR_ISOCH_BANDWIDTH_EXCEEDED,
- FC2_ERROR_IMAGE_CONVERSION_FAILED,
- FC2_ERROR_IMAGE_LIBRARY_FAILURE,
- FC2_ERROR_BUFFER_TOO_SMALL,
- FC2_ERROR_IMAGE_CONSISTENCY_ERROR,
- FC2_ERROR_FORCE_32BITS = FULL_32BIT_VALUE }

```
    enum fc2BusCallbackType {

 FC2_BUS_RESET,
 FC2 ARRIVAL,
 FC2_REMOVAL,
 FC2_CALLBACK_TYPE_FORCE_32BITS = FULL_32BIT_VALUE }
• enum fc2GrabMode {
 FC2_DROP_FRAMES,
 FC2 BUFFER FRAMES,
 FC2_UNSPECIFIED_GRAB_MODE,
 FC2 GRAB MODE FORCE 32BITS = FULL 32BIT VALUE }
• enum fc2GrabTimeout {
 FC2\_TIMEOUT\_NONE = 0,
 FC2_TIMEOUT_INFINITE = -1,
 FC2_TIMEOUT_UNSPECIFIED = -2,
 FC2_GRAB_TIMEOUT_FORCE_32BITS = FULL_32BIT_VALUE }
enum fc2BandwidthAllocation {
 FC2_BANDWIDTH_ALLOCATION_OFF = 0,
 FC2_BANDWIDTH_ALLOCATION_ON = 1,
 FC2 BANDWIDTH ALLOCATION UNSUPPORTED = 2,
 FC2 BANDWIDTH ALLOCATION UNSPECIFIED = 3,
 FC2_BANDWIDTH_ALLOCATION_FORCE_32BITS = FULL_32BIT_VALUE }
enum fc2InterfaceType {
 FC2_INTERFACE_IEEE1394,
 FC2_INTERFACE_USB_2,
 FC2 INTERFACE GIGE,
 FC2_INTERFACE_UNKNOWN,
 FC2_INTERFACE_TYPE_FORCE_32BITS = FULL_32BIT_VALUE }
• enum fc2PropertyType {
 FC2_BRIGHTNESS,
 FC2_AUTO_EXPOSURE,
 FC2_SHARPNESS,
 FC2_WHITE_BALANCE,
 FC2_HUE,
 FC2_SATURATION,
 FC2 GAMMA,
 FC2_IRIS,
 FC2 FOCUS,
 FC2 ZOOM,
 FC2_PAN,
 FC2_TILT,
 FC2_SHUTTER,
 FC2_GAIN,
```

```
FC2_TRIGGER_MODE,
 FC2_TRIGGER_DELAY,
 FC2_FRAME_RATE,
 FC2_TEMPERATURE,
 FC2_UNSPECIFIED_PROPERTY_TYPE,
 FC2_PROPERTY_TYPE_FORCE_32BITS = FULL_32BIT_VALUE }
• enum fc2FrameRate {
 FC2_FRAMERATE_1_875,
 FC2_FRAMERATE_3_75,
 FC2_FRAMERATE_7_5,
 FC2_FRAMERATE_15,
 FC2_FRAMERATE_30,
 FC2_FRAMERATE_60,
 FC2_FRAMERATE_120,
 FC2_FRAMERATE_240,
 FC2_FRAMERATE_FORMAT7,
 FC2_NUM_FRAMERATES,
 FC2_FRAMERATE_FORCE_32BITS = FULL_32BIT_VALUE }
• enum fc2VideoMode {
 FC2_VIDEOMODE_160x120YUV444,
 FC2 VIDEOMODE 320x240YUV422,
 FC2_VIDEOMODE_640x480YUV411,
 FC2_VIDEOMODE_640x480YUV422,
 FC2_VIDEOMODE_640x480RGB,
 FC2_VIDEOMODE_640x480Y8,
 FC2_VIDEOMODE_640x480Y16,
 FC2_VIDEOMODE_800x600YUV422,
 FC2_VIDEOMODE_800x600RGB,
 FC2_VIDEOMODE_800x600Y8,
 FC2 VIDEOMODE 800x600Y16,
 FC2_VIDEOMODE_1024x768YUV422,
 FC2_VIDEOMODE_1024x768RGB,
 FC2_VIDEOMODE_1024x768Y8,
 FC2_VIDEOMODE_1024x768Y16,
 FC2_VIDEOMODE_1280x960YUV422,
 FC2 VIDEOMODE 1280x960RGB,
 FC2_VIDEOMODE_1280x960Y8,
 FC2_VIDEOMODE_1280x960Y16,
 FC2_VIDEOMODE_1600x1200YUV422,
 FC2_VIDEOMODE_1600x1200RGB,
 FC2_VIDEOMODE_1600x1200Y8,
```

```
FC2_VIDEOMODE_1600x1200Y16,
 FC2_VIDEOMODE_FORMAT7,
 FC2_NUM_VIDEOMODES,
 FC2_VIDEOMODE_FORCE_32BITS = FULL_32BIT_VALUE }
• enum fc2Mode {
 FC2\_MODE\_0 = 0,
 FC2_MODE_1,
 FC2_MODE_2,
 FC2_MODE_3,
 FC2_MODE_4,
 FC2_MODE_5,
 FC2_MODE_6,
 FC2_MODE_7,
 FC2_MODE_8,
 FC2_MODE_9,
 FC2_MODE_10,
 FC2_MODE_11,
 FC2_MODE_12,
 FC2_MODE_13,
 FC2_MODE_14,
 FC2_MODE_15,
 FC2_MODE_16,
 FC2_MODE_17,
 FC2_MODE_18,
 FC2_MODE_19,
 FC2_MODE_20,
 FC2_MODE_21,
 FC2_MODE_22,
 FC2 MODE 23,
 FC2_MODE_24,
 FC2_MODE_25,
 FC2_MODE_26,
 FC2_MODE_27,
 FC2_MODE_28,
 FC2_MODE_29,
 FC2_MODE_30,
 FC2_MODE_31,
 FC2_NUM_MODES,
 FC2_MODE_FORCE_32BITS = FULL_32BIT_VALUE }
```

```
• enum fc2PixelFormat {
 FC2_{PIXEL\_FORMAT\_MONO8} = 0x800000000,
 FC2 PIXEL FORMAT 411YUV8 = 0x40000000,
 FC2_{PIXEL}_{FORMAT_{422YUV8}} = 0x200000000,
 FC2_{PIXEL}FORMAT_{444}YUV8 = 0x100000000,
 FC2_{PIXEL}FORMAT_{RGB8} = 0x080000000
 FC2 PIXEL FORMAT MONO16 = 0x04000000,
 FC2_PIXEL_FORMAT_RGB16 = 0x020000000,
 FC2_PIXEL_FORMAT_S_MONO16 = 0x010000000,
 FC2_PIXEL_FORMAT_S_RGB16 = 0x00800000,
 FC2_PIXEL_FORMAT_RAW8 = 0x00400000,
 FC2_PIXEL_FORMAT_RAW16 = 0x00200000,
 FC2_PIXEL_FORMAT_MONO12 = 0x00100000,
 FC2_PIXEL_FORMAT_RAW12 = 0x00080000,
 FC2_PIXEL_FORMAT_BGR = 0x80000008,
 FC2_PIXEL_FORMAT_BGRU = 0x40000008,
 FC2_PIXEL_FORMAT_RGB = FC2_PIXEL_FORMAT_RGB8,
 FC2 PIXEL FORMAT RGBU = 0x40000002,
 FC2_NUM_PIXEL_FORMATS = 15,
 FC2 UNSPECIFIED PIXEL FORMAT = 0 }
enum fc2BusSpeed {
 FC2_BUSSPEED_S100,
 FC2_BUSSPEED_S200,
 FC2_BUSSPEED_S400,
 FC2_BUSSPEED_S480,
 FC2_BUSSPEED_S800,
 FC2 BUSSPEED S1600,
 FC2_BUSSPEED_S3200,
 FC2_BUSSPEED_10BASE_T,
 FC2_BUSSPEED_100BASE_T,
 FC2_BUSSPEED_1000BASE_T,
 FC2_BUSSPEED_10000BASE_T,
 FC2_BUSSPEED_S_FASTEST,
 FC2_BUSSPEED_ANY,
 FC2_BUSSPEED_SPEED_UNKNOWN = -1,
 FC2 BUSSPEED FORCE 32BITS = FULL 32BIT VALUE }
• enum fc2ColorProcessingAlgorithm {
 FC2_DEFAULT,
 FC2_NO_COLOR_PROCESSING,
 FC2_NEAREST_NEIGHBOR_FAST,
 FC2_EDGE_SENSING,
```

```
FC2_HQ_LINEAR,
 FC2_RIGOROUS,
 FC2_COLOR_PROCESSING_ALGORITHM_FORCE_32BITS = FULL_32BIT_VALUE }
enum fc2BayerTileFormat {
 FC2 BT NONE,
 FC2_BT_RGGB,
 FC2_BT_GRBG,
 FC2_BT_GBRG,
 FC2_BT_BGGR,
 FC2_BT_FORCE_32BITS = FULL_32BIT_VALUE }
enum fc2ImageFileFormat {
 FC2 FROM FILE EXT = -1,
 FC2 PGM,
 FC2_PPM,
 FC2_BMP,
 FC2_JPEG,
 FC2_JPEG2000,
 FC2 TIFF,
 FC2_PNG,
 FC2_RAW,
 FC2_IMAGE_FILE_FORMAT_FORCE_32BITS = FULL_32BIT_VALUE }
enum fc2GigEPropertyType {
 FC2 HEARTBEAT,
 FC2_HEARTBEAT_TIMEOUT }
• enum fc2StatisticsChannel {
 FC2 STATISTICS GREY,
 FC2_STATISTICS_RED,
 FC2_STATISTICS_GREEN,
 FC2_STATISTICS_BLUE,
 FC2_STATISTICS_HUE,
 FC2_STATISTICS_SATURATION,
 FC2_STATISTICS_LIGHTNESS,
 FC2_STATISTICS_FORCE_32BITS = FULL_32BIT_VALUE }
• enum fc2OSType {
 FC2_WINDOWS_X86,
 FC2_WINDOWS_X64,
 FC2_LINUX_X86,
 FC2_LINUX_X64,
 FC2_MAC,
 FC2_UNKNOWN_OS,
 FC2_OSTYPE_FORCE_32BITS = FULL_32BIT_VALUE }
```

```
enum fc2ByteOrder {
    FC2_BYTE_ORDER_LITTLE_ENDIAN,
    FC2_BYTE_ORDER_BIG_ENDIAN,
    FC2_BYTE_ORDER_FORCE_32BITS = FULL_32BIT_VALUE }
enum fc2TIFFCompressionMethod {
    FC2_TIFF_NONE = 1,
    FC2_TIFF_PACKBITS,
    FC2_TIFF_DEFLATE,
    FC2_TIFF_ADOBE_DEFLATE,
    FC2_TIFF_CCITTFAX3,
    FC2_TIFF_CCITTFAX4,
    FC2_TIFF_LZW,
    FC2_TIFF_LZW,
    FC2_TIFF_JPEG }
```

4.2.1 Define Documentation

- **4.2.1.1** #define FALSE 0
- 4.2.1.2 #define FULL_32BIT_VALUE 0x7FFFFFFF
- 4.2.1.3 #define MAX_STRING_LENGTH 512
- **4.2.1.4** #define TRUE 1

4.2.2 Typedef Documentation

- 4.2.2.1 typedef int BOOL
- 4.2.2.2 typedef void(* fc2AsyncCommandCallback)(fc2Error retError, void *pUserData)
- 4.2.2.3 typedef void* fc2AVIContext

A context referring to the AVI recorder object.

- 4.2.2.4 typedef void(* fc2BusEventCallback)(void *pParameter, unsigned int serialNumber)
- 4.2.2.5 typedef void* fc2CallbackHandle
- 4.2.2.6 typedef void* fc2Context

A context to the FlyCapture2 C library.

It must be created before performing any calls to the library.

4.2.2.7 typedef void* fc2GuiContext

A context to the FlyCapture2 C GUI library.

It must be created before performing any calls to the library.

4.2.2.8 typedef void(* fc2ImageEventCallback)(fc2Image *image, void *pCallbackData)

4.2.2.9 typedef void* fc2ImageImpl

An internal pointer used in the fc2Image structure.

4.2.2.10 typedef void* fc2ImageStatisticsContext

A context referring to the ImageStatistics object.

4.2.3 Enumeration Type Documentation

4.2.3.1 enum fc2BandwidthAllocation

Enumerator:

```
FC2\_BANDWIDTH\_ALLOCATION\_OFF
```

 $FC2_BANDWIDTH_ALLOCATION_ON$

 $FC2_BANDWIDTH_ALLOCATION_UNSUPPORTED$

FC2_BANDWIDTH_ALLOCATION_UNSPECIFIED

FC2_BANDWIDTH_ALLOCATION_FORCE_32BITS

4.2.3.2 enum fc2BayerTileFormat

Enumerator:

```
FC2_BT_NONE No bayer tile format.
```

FC2_BT_RGGB Red-Green-Green-Blue.

FC2_BT_GRBG Green-Red-Blue-Green.

FC2_BT_GBRG Green-Blue-Red-Green.

FC2_BT_BGGR Blue-Green-Green-Red.

FC2_BT_FORCE_32BITS

4.2.3.3 enum fc2BusCallbackType

Enumerator:

FC2_BUS_RESET

FC2_ARRIVAL

 $FC2_REMOVAL$

FC2_CALLBACK_TYPE_FORCE_32BITS

4.2.3.4 enum fc2BusSpeed

Enumerator:

FC2 BUSSPEED S100 100Mbits/sec.

FC2_BUSSPEED_S200 200Mbits/sec.

FC2_BUSSPEED_S400 400Mbits/sec.

FC2 BUSSPEED_S480 480Mbits/sec.

Only for USB cameras.

FC2_BUSSPEED_S800 800Mbits/sec.

FC2_BUSSPEED_S1600 1600Mbits/sec.

FC2_BUSSPEED_S3200 3200Mbits/sec.

FC2_BUSSPEED_10BASE_T 10Base-T.

Only for GigE cameras.

FC2_BUSSPEED_100BASE_T 100Base-T.

Only for GigE cameras.

FC2_BUSSPEED_1000BASE_T 1000Base-T (Gigabit Ethernet).

Only for GigE cameras.

FC2_BUSSPEED_10000BASE_T 10000Base-T.

Only for GigE cameras.

FC2_BUSSPEED_S_FASTEST The fastest speed available.

FC2_BUSSPEED_ANY Any speed that is available.

FC2_BUSSPEED_SPEED_UNKNOWN Unknown bus speed.

FC2_BUSSPEED_FORCE_32BITS

4.2.3.5 enum fc2ByteOrder

Enumerator:

FC2 BYTE ORDER LITTLE ENDIAN

FC2_BYTE_ORDER_BIG_ENDIAN

 $FC2_BYTE_ORDER_FORCE_32BITS$

4.2.3.6 enum fc2ColorProcessingAlgorithm

Enumerator:

FC2 DEFAULT

FC2_NO_COLOR_PROCESSING

FC2_NEAREST_NEIGHBOR_FAST

FC2_EDGE_SENSING

FC2_HQ_LINEAR

FC2_RIGOROUS

FC2_COLOR_PROCESSING_ALGORITHM_FORCE_32BITS

4.2.3.7 enum fc2Error

Enumerator:

- FC2_ERROR_UNDEFINED Undefined.
- FC2 ERROR OK Function returned with no errors.
- FC2_ERROR_FAILED General failure.
- FC2 ERROR NOT IMPLEMENTED Function has not been implemented.
- FC2_ERROR_FAILED_BUS_MASTER_CONNECTION Could not connect to Bus Master.
- FC2_ERROR_NOT_CONNECTED Camera has not been connected.
- FC2 ERROR INIT FAILED Initialization failed.
- FC2_ERROR_NOT_INTITIALIZED Camera has not been initialized.
- FC2_ERROR_INVALID_PARAMETER Invalid parameter passed to function.
- FC2_ERROR_INVALID_SETTINGS Setting set to camera is invalid.
- FC2_ERROR_INVALID_BUS_MANAGER Invalid Bus Manager object.
- FC2_ERROR_MEMORY_ALLOCATION_FAILED Could not allocate memory.
- FC2_ERROR_LOW_LEVEL_FAILURE Low level error.
- FC2 ERROR NOT FOUND Device not found.
- FC2_ERROR_FAILED_GUID GUID failure.
- FC2 ERROR INVALID PACKET SIZE Packet size set to camera is invalid.
- FC2_ERROR_INVALID_MODE Invalid mode has been passed to function.
- FC2_ERROR_NOT_IN_FORMAT7 Error due to not being in Format7.
- FC2_ERROR_NOT_SUPPORTED This feature is unsupported.
- FC2_ERROR_TIMEOUT Timeout error.
- FC2_ERROR_BUS_MASTER_FAILED Bus Master Failure.
- FC2_ERROR_INVALID_GENERATION Generation Count Mismatch.
- FC2_ERROR_LUT_FAILED Look Up Table failure.
- FC2_ERROR_IIDC_FAILED IIDC failure.
- FC2_ERROR_STROBE_FAILED Strobe failure.
- FC2_ERROR_TRIGGER_FAILED Trigger failure.
- FC2_ERROR_PROPERTY_FAILED Property failure.
- FC2_ERROR_PROPERTY_NOT_PRESENT Property is not present.
- FC2_ERROR_REGISTER_FAILED Register access failed.
- FC2_ERROR_READ_REGISTER_FAILED Register read failed.
- FC2_ERROR_WRITE_REGISTER_FAILED Register write failed.
- FC2_ERROR_ISOCH_FAILED Isochronous failure.
- FC2 ERROR ISOCH ALREADY STARTED Isochronous transfer has already been started.
- FC2_ERROR_ISOCH_NOT_STARTED Isochronous transfer has not been started.
- FC2_ERROR_ISOCH_START_FAILED Isochronous start failed.
- FC2 ERROR ISOCH RETRIEVE BUFFER FAILED Isochronous retrieve buffer failed.
- FC2_ERROR_ISOCH_STOP_FAILED Isochronous stop failed.
- FC2_ERROR_ISOCH_SYNC_FAILED Isochronous image synchronization failed.
- FC2_ERROR_ISOCH_BANDWIDTH_EXCEEDED Isochronous bandwidth exceeded.

FC2_ERROR_IMAGE_CONVERSION_FAILED Image conversion failed.

FC2_ERROR_IMAGE_LIBRARY_FAILURE Image library failure.

FC2_ERROR_BUFFER_TOO_SMALL Buffer is too small.

FC2_ERROR_IMAGE_CONSISTENCY_ERROR There is an image consistency error.

FC2_ERROR_FORCE_32BITS

4.2.3.8 enum fc2FrameRate

Enumerator:

FC2_FRAMERATE_1_875 1.875 fps.

FC2 FRAMERATE 3 75 3.75 fps.

FC2_FRAMERATE_7_5 7.5 fps.

FC2_FRAMERATE_15 15 fps.

FC2_FRAMERATE_30 30 fps.

FC2_FRAMERATE_60 60 fps.

FC2_FRAMERATE_120 120 fps.

FC2_FRAMERATE_240 240 fps.

FC2_FRAMERATE_FORMAT7 Custom frame rate for Format7 functionality.

FC2_NUM_FRAMERATES Number of possible camera frame rates.

FC2_FRAMERATE_FORCE_32BITS

4.2.3.9 enum fc2GigEPropertyType

Enumerator:

FC2 HEARTBEAT

 $FC2_HEARTBEAT_TIMEOUT$

4.2.3.10 enum fc2GrabMode

Enumerator:

FC2_DROP_FRAMES

FC2_BUFFER_FRAMES

 $FC2_UNSPECIFIED_GRAB_MODE$

FC2_GRAB_MODE_FORCE_32BITS

4.2.3.11 enum fc2GrabTimeout

Enumerator:

FC2_TIMEOUT_NONE

FC2_TIMEOUT_INFINITE

FC2 TIMEOUT UNSPECIFIED

FC2_GRAB_TIMEOUT_FORCE_32BITS

4.2.3.12 enum fc2ImageFileFormat

Enumerator:

```
FC2_FROM_FILE_EXT Determine file format from file extension.
```

FC2_PGM Portable gray map.

FC2_PPM Portable pixmap.

FC2_BMP Bitmap.

FC2_JPEG JPEG.

FC2_JPEG2000 JPEG 2000.

FC2_TIFF Tagged image file format.

FC2_PNG Portable network graphics.

FC2_RAW Raw data.

 $FC2_IMAGE_FILE_FORMAT_FORCE_32BITS$

4.2.3.13 enum fc2InterfaceType

Enumerator:

```
FC2_INTERFACE_IEEE1394
```

 $FC2_INTERFACE_USB_2$

FC2_INTERFACE_GIGE

FC2_INTERFACE_UNKNOWN

FC2_INTERFACE_TYPE_FORCE_32BITS

4.2.3.14 enum fc2Mode

Enumerator:

FC2_MODE_0

 $FC2_MODE_1$

 $FC2_MODE_2$

FC2_MODE_3

FC2_MODE_4

FC2_MODE_5

FC2_MODE_6

FC2_MODE_7

FC2_MODE_8

FC2_MODE_9

FC2_MODE_10

FC2_MODE_11

FC2_MODE_12

FC2_MODE_13

FC2_MODE_14

```
FC2_MODE_15
FC2_MODE_16
FC2_MODE_17
FC2_MODE_18
FC2 MODE 19
FC2_MODE_20
FC2_MODE_21
FC2_MODE_22
FC2_MODE_23
FC2_MODE_24
FC2_MODE_25
FC2_MODE_26
FC2_MODE_27
FC2_MODE_28
FC2_MODE_29
FC2_MODE_30
FC2_MODE_31
FC2_NUM_MODES Number of modes.
```

4.2.3.15 enum fc2OSType

Enumerator:

```
FC2_WINDOWS_X86
FC2_WINDOWS_X64
FC2_LINUX_X86
FC2_LINUX_X64
FC2_MAC
FC2_UNKNOWN_OS
FC2_OSTYPE_FORCE_32BITS
```

FC2_MODE_FORCE_32BITS

4.2.3.16 enum fc2PixelFormat

Enumerator:

```
FC2_PIXEL_FORMAT_MONO8 8 bits of mono information.
FC2_PIXEL_FORMAT_411YUV8 YUV 4:1:1.
FC2_PIXEL_FORMAT_422YUV8 YUV 4:2:2.
FC2_PIXEL_FORMAT_444YUV8 YUV 4:4:4.
FC2_PIXEL_FORMAT_RGB8 R = G = B = 8 bits.
FC2_PIXEL_FORMAT_MONO16 16 bits of mono information.
FC2_PIXEL_FORMAT_RGB16 R = G = B = 16 bits.
```

- FC2_PIXEL_FORMAT_S_MONO16 16 bits of signed mono information.
- $FC2_PIXEL_FORMAT_S_RGB16$ R = G = B = 16 bits signed.
- FC2_PIXEL_FORMAT_RAW8 8 bit raw data output of sensor.
- FC2_PIXEL_FORMAT_RAW16 16 bit raw data output of sensor.
- FC2_PIXEL_FORMAT_MONO12 12 bits of mono information.
- FC2_PIXEL_FORMAT_RAW12 12 bit raw data output of sensor.
- FC2_PIXEL_FORMAT_BGR 24 bit BGR.
- FC2_PIXEL_FORMAT_BGRU 32 bit BGRU.
- FC2_PIXEL_FORMAT_RGB 24 bit RGB.
- FC2_PIXEL_FORMAT_RGBU 32 bit RGBU.
- FC2_NUM_PIXEL_FORMATS Number of pixel formats.
- FC2_UNSPECIFIED_PIXEL_FORMAT Unspecified pixel format.

4.2.3.17 enum fc2PropertyType

Enumerator:

- FC2 BRIGHTNESS
- FC2_AUTO_EXPOSURE
- FC2_SHARPNESS
- FC2 WHITE BALANCE
- FC2_HUE
- FC2_SATURATION
- FC2_GAMMA
- FC2_IRIS
- FC2_FOCUS
- FC2_ZOOM
- FC2_PAN
- FC2_TILT
- FC2_SHUTTER
- FC2_GAIN
- FC2_TRIGGER_MODE
- FC2_TRIGGER_DELAY
- FC2_FRAME_RATE
- FC2_TEMPERATURE
- $FC2_UNSPECIFIED_PROPERTY_TYPE$
- FC2_PROPERTY_TYPE_FORCE_32BITS

4.2.3.18 enum fc2StatisticsChannel

Enumerator:

FC2_STATISTICS_GREY

FC2 STATISTICS RED

FC2_STATISTICS_GREEN

FC2_STATISTICS_BLUE

FC2_STATISTICS_HUE

FC2 STATISTICS SATURATION

FC2_STATISTICS_LIGHTNESS

FC2 STATISTICS FORCE 32BITS

4.2.3.19 enum fc2TIFFCompressionMethod

Enumerator:

FC2_TIFF_NONE

FC2_TIFF_PACKBITS

FC2_TIFF_DEFLATE

FC2 TIFF ADOBE DEFLATE

FC2_TIFF_CCITTFAX3

FC2 TIFF CCITTFAX4

FC2 TIFF LZW

FC2_TIFF_JPEG

4.2.3.20 enum fc2VideoMode

Enumerator:

FC2_VIDEOMODE_160x120YUV444 160x120 YUV444.

FC2_VIDEOMODE_320x240YUV422 320x240 YUV422.

FC2 VIDEOMODE 640x480YUV411 640x480 YUV411.

FC2_VIDEOMODE_640x480YUV422 640x480 YUV422.

FC2_VIDEOMODE_640x480RGB 640x480 24-bit RGB.

FC2_VIDEOMODE_640x480Y8 640x480 8-bit.

FC2_VIDEOMODE_640x480Y16 640x480 16-bit.

FC2_VIDEOMODE_800x600YUV422 800x600YUV422.

FC2 VIDEOMODE 800x600RGB 800x600 RGB.

FC2_VIDEOMODE_800x600Y8 800x600 8-bit.

FC2_VIDEOMODE_800x600Y16 800x600 16-bit.

FC2_VIDEOMODE_1024x768YUV422 1024x768YUV422.

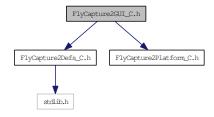
FC2_VIDEOMODE_1024x768RGB 1024x768 RGB.

FC2_VIDEOMODE_1024x768Y8 1024x768 8-bit.

- FC2_VIDEOMODE_1024x768Y16 1024x768 16-bit.
- FC2_VIDEOMODE_1280x960YUV422 1280x960 YUV422.
- FC2_VIDEOMODE_1280x960RGB 1280x960 RGB.
- FC2_VIDEOMODE_1280x960Y8 1280x960 8-bit.
- FC2_VIDEOMODE_1280x960Y16 1280x960 16-bit.
- FC2_VIDEOMODE_1600x1200YUV422 1600x1200 YUV422.
- FC2 VIDEOMODE 1600x1200RGB 1600x1200 RGB.
- FC2_VIDEOMODE_1600x1200Y8 1600x1200 8-bit.
- FC2_VIDEOMODE_1600x1200Y16 1600x1200 16-bit.
- FC2_VIDEOMODE_FORMAT7 Custom video mode for Format7 functionality.
- FC2_NUM_VIDEOMODES Number of possible video modes.
- FC2_VIDEOMODE_FORCE_32BITS

4.3 FlyCapture2GUI_C.h File Reference

Include dependency graph for FlyCapture2GUI_C.h:



Functions

- FLYCAPTURE2_C_API fc2Error fc2CreateGUIContext (fc2GuiContext *pContext)
 Create a GUI context.
- FLYCAPTURE2_C_API fc2Error fc2DestroyGUIContext (fc2GuiContext context)

 Destroy a GUI context.
- FLYCAPTURE2_C_API void fc2GUIConnect (fc2GuiContext context, fc2Context cameraContext)

Connect GUI context to a camera context.

- FLYCAPTURE2_C_API void fc2Disonnect (fc2GuiContext context) Disconnect GUI context from camera.
- FLYCAPTURE2_C_API void fc2Show (fc2GuiContext context)
 Show the GUI.
- FLYCAPTURE2_C_API void fc2Hide (fc2GuiContext context) Hide the GUI.
- FLYCAPTURE2_C_API BOOL fc2IsVisible (fc2GuiContext context) Check if the GUI is visible.
- FLYCAPTURE2_C_API void fc2ShowModal (fc2GuiContext context, BOOL *pOkSelected, fc2PGRGuid *guidArray, unsigned int *size)

Show the camera selection dialog.

4.3.1 Function Documentation

4.3.1.1 FLYCAPTURE2_C_API fc2Error fc2CreateGUIContext (fc2GuiContext * pContext)

Create a GUI context.

Parameters:

pContext Pointer to context to be created.

Returns:

An Error indicating the success or failure of the function.

4.3.1.2 FLYCAPTURE2_C_API fc2Error fc2DestroyGUIContext (fc2GuiContext context)

Destroy a GUI context.

Parameters:

context Context to be destroyed.

Returns:

An Error indicating the success or failure of the function.

4.3.1.3 FLYCAPTURE2_C_API void fc2Disonnect (fc2GuiContext context)

Disconnect GUI context from camera.

Parameters:

context GUI context to disconnect.

Returns:

An Error indicating the success or failure of the function.

4.3.1.4 FLYCAPTURE2_C_API void fc2GUIConnect (fc2GuiContext context, fc2Context cameraContext)

Connect GUI context to a camera context.

Parameters:

context GUI context to connect.

cameraContext Camera context to connect.

Returns:

An Error indicating the success or failure of the function.

4.3.1.5 FLYCAPTURE2_C_API void fc2Hide (fc2GuiContext context)

Hide the GUI.

Parameters:

context Pointer to context to hide.

Returns:

An Error indicating the success or failure of the function.

4.3.1.6 FLYCAPTURE2_C_API BOOL fc2IsVisible (fc2GuiContext context)

Check if the GUI is visible.

Parameters:

context Pointer to context to show.

Returns:

Whether the GUI is visible.

4.3.1.7 FLYCAPTURE2_C_API void fc2Show (fc2GuiContext context)

Show the GUI.

Parameters:

context Pointer to context to show.

Returns:

An Error indicating the success or failure of the function.

4.3.1.8 FLYCAPTURE2_C_API void fc2ShowModal (fc2GuiContext context, BOOL * pOkSelected, fc2PGRGuid * guidArray, unsigned int * size)

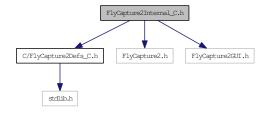
Show the camera selection dialog.

Parameters:

```
context Pointer to context to show.
pOkSelected Whether Ok (true) or Cancel (false) was clicked.
guidArray Array of PGRGuids containing the selected cameras.
size Size of PGRGuid array.
```

4.4 FlyCapture2Internal_C.h File Reference

Include dependency graph for FlyCapture2Internal_C.h:



Data Structures

- struct fc2InternalContext
- struct fc2InternalGuiContext
- struct fc2InternalImageCallback

Functions

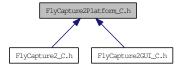
- bool IsContextValid (fc2Context context)
- bool IsGuiContextValid (fc2GuiContext context)
- void SyncCppImageToStruct (fc2Image *pImage)

4.4.1 Function Documentation

- **4.4.1.1** bool IsContextValid (fc2Context context) [inline]
- $\textbf{4.4.1.2} \quad \textbf{bool IsGuiContextValid (fc2GuiContext} \quad \texttt{[inline]}$
- **4.4.1.3 void SyncCppImageToStruct** (**fc2Image** * **pImage**) [inline]

4.5 FlyCapture2Platform_C.h File Reference

This graph shows which files directly or indirectly include this file:



Defines

- #define FLYCAPTURE2_C_API
- #define FLYCAPTURE2_C_CALL_CONVEN

4.5.1 Define Documentation

- 4.5.1.1 #define FLYCAPTURE2_C_API
- 4.5.1.2 #define FLYCAPTURE2_C_CALL_CONVEN

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