Reserved Format Identifiers

These formats are not defined by this specification, they are just listed for reference and to avoid naming conflicts. If you want to register your own format, send an e-mail to the linux-media mailing list https://linuxtv.org/lists.php for inclusion in the `videodev2.h` file. If you want to share your format with other developers add a link to your documentation and send a copy to the linux-media mailing list for inclusion in this section. If you think your format should be listed in a standard format section please make a proposal on the linux-media mailing list.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\userspace-api\media\v4l\(linux-master)(Documentation)(userspace-api)(media)(v4l)pixfmt-reserved.rst, line 20)

Unknown directive type "tabularcolumns".

```
.. tabularcolumns:: |p{6.6cm}|p{2.2cm}|p{8.5cm}|
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\userspace-api\media\v4l\(linux-master)(Documentation)(userspace-api)(media)(v4l)pixfmt-reserved.rst, line 28)

Unknown directive type "flat-table".

```
.. flat-table:: Reserved Image Formats
    :header-rows:  1
    :stub-columns: 0
    :widths:       3 1 4

    * - Identifier
      - Code
      - Details
    * .. _V4L2-PIX-FMT-DV:

      - ``V4L2_PIX_FMT_DV``
      - 'dvsd'
      - unknown
    * .. _V4L2-PIX-FMT-ET61X251:

      - ``V4L2_PIX_FMT_ET61X251``
      - 'E625'
      - Compressed format of the ET61X251 driver.
    * .. _V4L2-PIX-FMT-HI240:

      - ``V4L2_PIX_FMT_HI240``
      - 'HI24'
      - 8 bit RGB format used by the BTTV driver.
    * .. _V4L2-PIX-FMT-CPIA1:

      - ``V4L2_PIX_FMT_CPIA1``
      - 'CPIA'
      - YUV format used by the gspca cpia1 driver.
    * .. _V4L2-PIX-FMT-JPGL:

      - ``V4L2_PIX_FMT_JPGL``
      - 'JPGL'
      - JPEG-Light format (Pegasus Lossless JPEG) used in Divio webcams NW
        80x.
    * .. _V4L2-PIX-FMT-SPCA501:

      - ``V4L2_PIX_FMT_SPCA501``
      - 'S501'
      - YUYV per line used by the gspca driver.
    * .. _V4L2-PIX-FMT-SPCA505:

      - ``V4L2_PIX_FMT_SPCA505``
      - 'S505'
      - YYUV per line used by the gspca driver.
    * .. _V4L2-PIX-FMT-SPCA508:

      - ``V4L2_PIX_FMT_SPCA508``
      - 'S508'
      - YUVY per line used by the gspca driver.
    * .. _V4L2-PIX-FMT-SPCA561:

      - ``V4L2_PIX_FMT_SPCA561``
```

```
  - 'S561'
  - Compressed GBRG Bayer format used by the gspca driver.
* .. _V4L2-PIX-FMT-PAC207:

  - ``V4L2_PIX_FMT_PAC207``
  - 'P207'
  - Compressed BGGR Bayer format used by the gspca driver.
* .. _V4L2-PIX-FMT-MR97310A:

  - ``V4L2_PIX_FMT_MR97310A``
  - 'M310'
  - Compressed BGGR Bayer format used by the gspca driver.
* .. _V4L2-PIX-FMT-JL2005BCD:

  - ``V4L2_PIX_FMT_JL2005BCD``
  - 'JL20'
  - JPEG compressed RGGB Bayer format used by the gspca driver.
* .. _V4L2-PIX-FMT-OV511:

  - ``V4L2_PIX_FMT_OV511``
  - 'O511'
  - OV511 JPEG format used by the gspca driver.
* .. _V4L2-PIX-FMT-OV518:

  - ``V4L2_PIX_FMT_OV518``
  - 'O518'
  - OV518 JPEG format used by the gspca driver.
* .. _V4L2-PIX-FMT-PJPG:

  - ``V4L2_PIX_FMT_PJPG``
  - 'PJPG'
  - Pixart 73xx JPEG format used by the gspca driver.
* .. _V4L2-PIX-FMT-SE401:

  - ``V4L2_PIX_FMT_SE401``
  - 'S401'
  - Compressed RGB format used by the gspca se401 driver
* .. _V4L2-PIX-FMT-SQ905C:

  - ``V4L2_PIX_FMT_SQ905C``
  - '905C'
  - Compressed RGGB bayer format used by the gspca driver.
* .. _V4L2-PIX-FMT-MJPEG:

  - ``V4L2_PIX_FMT_MJPEG``
  - 'MJPG'
  - Compressed format used by the Zoran driver
* .. _V4L2-PIX-FMT-PWC1:

  - ``V4L2_PIX_FMT_PWC1``
  - 'PWC1'
  - Compressed format of the PWC driver.
* .. _V4L2-PIX-FMT-PWC2:

  - ``V4L2_PIX_FMT_PWC2``
  - 'PWC2'
  - Compressed format of the PWC driver.
* .. _V4L2-PIX-FMT-SN9C10X:

  - ``V4L2_PIX_FMT_SN9C10X``
  - 'S910'
  - Compressed format of the SN9C102 driver.
* .. _V4L2-PIX-FMT-SN9C20X-I420:

  - ``V4L2_PIX_FMT_SN9C20X_I420``
  - 'S920'
  - YUV 4:2:0 format of the gspca sn9c20x driver.
* .. _V4L2-PIX-FMT-SN9C2028:

  - ``V4L2_PIX_FMT_SN9C2028``
  - 'SONX'
  - Compressed GBRG bayer format of the gspca sn9c2028 driver.
* .. _V4L2-PIX-FMT-STV0680:

  - ``V4L2_PIX_FMT_STV0680``
  - 'S680'
  - Bayer format of the gspca stv0680 driver.
* .. _V4L2-PIX-FMT-WNVA:

  - ``V4L2_PIX_FMT_WNVA``
  - 'WNVA'
```

  - Used by the Winnov Videum driver,
    `http://www.thedirks.org/winnov/ <http://www.thedirks.org/winnov/>`__
* .. _V4L2-PIX-FMT-TM6000:

  - ``V4L2_PIX_FMT_TM6000``
  - 'TM60'
  - Used by Trident tm6000
* .. _V4L2-PIX-FMT-CIT-YYVYUY:

  - ``V4L2_PIX_FMT_CIT_YYVYUY``
  - 'CITV'
  - Used by xirlink CIT, found at IBM webcams.

    Uses one line of Y then 1 line of VYUY
* .. _V4L2-PIX-FMT-KONICA420:

  - ``V4L2_PIX_FMT_KONICA420``
  - 'KONI'
  - Used by Konica webcams.

    YUV420 planar in blocks of 256 pixels.
* .. _V4L2-PIX-FMT-YYUV:

  - ``V4L2_PIX_FMT_YYUV``
  - 'YYUV'
  - unknown
* .. _V4L2-PIX-FMT-Y4:

  - ``V4L2_PIX_FMT_Y4``
  - 'Y04 '
  - Old 4-bit greyscale format. Only the most significant 4 bits of
    each byte are used, the other bits are set to 0.
* .. _V4L2-PIX-FMT-Y6:

  - ``V4L2_PIX_FMT_Y6``
  - 'Y06 '
  - Old 6-bit greyscale format. Only the most significant 6 bits of
    each byte are used, the other bits are set to 0.
* .. _V4L2-PIX-FMT-S5C-UYVY-JPG:

  - ``V4L2_PIX_FMT_S5C_UYVY_JPG``
  - 'S5CI'
  - Two-planar format used by Samsung S5C73MX cameras. The first plane
    contains interleaved JPEG and UYVY image data, followed by meta
    data in form of an array of offsets to the UYVY data blocks. The
    actual pointer array follows immediately the interleaved JPEG/UYVY
    data, the number of entries in this array equals the height of the
    UYVY image. Each entry is a 4-byte unsigned integer in big endian
    order and it's an offset to a single pixel line of the UYVY image.
    The first plane can start either with JPEG or UYVY data chunk. The
    size of a single UYVY block equals the UYVY image's width
    multiplied by 2. The size of a JPEG chunk depends on the image and
    can vary with each line.

    The second plane, at an offset of 4084 bytes, contains a 4-byte
    offset to the pointer array in the first plane. This offset is
    followed by a 4-byte value indicating size of the pointer array.
    All numbers in the second plane are also in big endian order.
    Remaining data in the second plane is undefined. The information
    in the second plane allows to easily find location of the pointer
    array, which can be different for each frame. The size of the
    pointer array is constant for given UYVY image height.

    In order to extract UYVY and JPEG frames an application can
    initially set a data pointer to the start of first plane and then
    add an offset from the first entry of the pointers table. Such a
    pointer indicates start of an UYVY image pixel line. Whole UYVY
    line can be copied to a separate buffer. These steps should be
    repeated for each line, i.e. the number of entries in the pointer
    array. Anything what's in between the UYVY lines is JPEG data and
    should be concatenated to form the JPEG stream.
* .. _V4L2-PIX-FMT-MT21C:

  - ``V4L2_PIX_FMT_MT21C``
  - 'MT21'
  - Compressed two-planar YVU420 format used by Mediatek MT8173, MT8192,
    MT8195 and more. The compression is lossless. This format have
    similitude with ``V4L2_PIX_FMT_MM21`` in term of alignment and tiling.
    It remains an opaque intermediate format and the MDP hardware must be
    used to convert ``V4L2_PIX_FMT_MT21C`` to ``V4L2_PIX_FMT_NV12M``,
    ``V4L2_PIX_FMT_YUV420M`` or ``V4L2_PIX_FMT_YVU420``.