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From: [Christopher \(ctn_spam_and_i_sue@softhome.net\)](mailto:ctn_spam_and_i_sue@softhome.net)

Subject: Re: How to get datestamp from DV capture

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Date: 2002-05-11 10:42:25 PST

Duh! I had the flash of insight (!) to look at the DV data stream itself with my filter, rather than messing with device controls. The date stamp is right there in the Vaux data fields, repeated 300 times a second!

Here's the fragments as promised.

```
typedef struct {
    BYTE bytes[80];
} DV_DIFBlock;

typedef struct {
    DV_DIFBlock header[1];
} DV_Header;

typedef struct {
    DV_DIFBlock subcode[2];
} DV_Subcode;

typedef struct {
    DV_DIFBlock skip[2];
    BYTE skip48[48];

    BYTE magic_60;
    BYTE magic_FF_1;
    BYTE magic_FF_2;
    BYTE PAL20;
    BYTE magic_FF_3;

    BYTE magic_61;
    BYTE magic_33;
    BYTE aspect_16x9_CF;
    BYTE magic_FD;
    BYTE magic_FF_4;

    BYTE magic_62;
    BYTE magic_FF_5;
    BYTE day:5; //max = 0x31
    BYTE msb_day:3;
    BYTE month:5; //max = 0x12
    BYTE msb_month:3;
    BYTE year; //max = 0x99

    BYTE magic_63;
    BYTE magic_FF_6;
    BYTE second:6; //max = 0x59
    BYTE msb_second:2;
    BYTE minute:6; //max = 0x59
    BYTE msb_minute:2;
    BYTE hour:6; //max = 0x23
```

```

BYTE  msb_hour:2;

BYTE  skip12[12];
} DV_Vaux;

typedef struct {
    DV_DIFBlock bytes[144];
} DV_AVData;

typedef struct {
    DV_Header header;
    DV_Subcode subcodes;
    DV_Vaux  vaux;
    DV_AVData avdata;
} DV_DIFSequence;

typedef DV_DIFSequence DV_Frame_NTSC[10];
typedef DV_DIFSequence DV_Frame_PAL[12];

... in CMyInputPin::Receive(IMediaSample *pSample)

    hr = pSample->GetPointer(&pbData);
    if (FAILED(hr)) {
        return hr;
    }

#define BCD(x) (((x & 0xf0) >> 4) * 10 + (x & 0x0f))
DV_Frame_PAL *frame = (DV_Frame_PAL *) pbData;
DV_DIFSequence *s0 = frame[0];
int year = BCD(s0->vaux.year);
int month = BCD(s0->vaux.month);
int day = BCD(s0->vaux.day);
int hour = BCD(s0->vaux.hour);
int minute = BCD(s0->vaux.minute);
int second = BCD(s0->vaux.second);

...

```

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