**HT\_VPE 测试数据**

测试说明：

vpe测试命令7个参数分别代表Channel ID、Iq、Roation、Crop、Inputsize、outputsiaze、pixelformat。

Channel ID(0~16)。

Iq参数0~3，0代表off，1~3分别代表下面三组参数：

{255,255,255,255,14,15,16,16,16,{255,255,255,255,255,0},255},

{80,60,80,60,4,8,16,4,0,{0,20,80,120,160,160},0},

{0,0,0,0,0,0,0,0,0,{0,0,0,0,0,0},128}

参数含义

MS\_U8 u8NRC\_SF\_STR; //0 ~ 255;

MS\_U8 u8NRC\_TF\_STR; //0 ~ 255

MS\_U8 u8NRY\_SF\_STR; //0 ~ 255

MS\_U8 u8NRY\_TF\_STR; //0 ~ 255

MS\_U8 u8NRY\_BLEND\_MOTION\_TH; //0 ~ 15

MS\_U8 u8NRY\_BLEND\_STILL\_TH; //0 ~ 15

MS\_U8 u8NRY\_BLEND\_MOTION\_WEI; //0 ~ 31

MS\_U8 u8NRY\_BLEND\_OTHER\_WEI; //0 ~ 31

MS\_U8 u8NRY\_BLEND\_STILL\_WEI; //0 ~ 31

MS\_U8 u8EdgeGain[6];//0~255

MS\_U8 u8Contrast;//0~255

roation参数0~3，0代表off，1~3分别代表旋转90，180，270度。

crop参数0~3分别代表cropsize为{0,0,640,480}，{0,0,720,480}，{0,0,1280,720}，{0,0,1920,1088}。

inputsize参数范围在0~3时分辨率为(640\*480，720\*480，1280\*720，1920\*1088)，代表从文件中读数据作为输入，大于3时代表从前端vif中拿数据作为inputbuffer。

outputsize(0~3)时分别代表分辨率为(640\*480，720\*480，1280\*720，1920\*1088)，4个outputport输出相同内容。

pixelformat 1代表YUV422YUYV，10代表YUV420NV12。

存DDR情景下每个Channel处理2帧，写文件情景下处理10帧

单通道测试：

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Test  CASE | Channel  ID | Iq | Roation | Crop | input resolution | output resolution | Input/out file format | Result |
| CASE1 | 0 | off | off | (0,0,640,480) | 640\*480 | 640\*480 | YUV420NV12 | sucess |
| CASE2 | 2 | off | off | (0,0,720,480) | 720\*480 | 720\*480 | YUV420NV12 | sucess |
| CASE3 | 4 | off | off | (0,0,1280,720) | 1280\*720 | 1280\*720 | YUV420NV12 | sucess |
| CASE4 | 6 | off | off | (0,0,1920,1088) | 1920\*1088 | 1920\*1088 | YUV420NV12 | sucess |
| 测试命令：  CASE1：echo vpe 0 0 0 0 0 0 10 > /proc/hal/uttest  CASE2：echo vpe 2 0 0 1 1 1 10 > /proc/hal/uttest  CASE3：echo vpe 4 0 0 2 2 2 10 > /proc/hal/uttest  CASE4：echo vpe 6 0 0 3 3 3 10 > /proc/hal/uttest  扩展命令：从vif拿数据，将inputsize的参数大于3即可，但要在前一步运行vif  CASE1：echo vpe 0 0 0 0 6 0 10 > /proc/hal/uttest  CASE2：echo vpe 2 0 0 1 6 1 10 > /proc/hal/uttest  CASE3：echo vpe 4 0 0 2 6 2 10 > /proc/hal/uttest  CASE4：echo vpe 6 0 0 3 6 3 10 > /proc/hal/uttest  修改filefomat支持YUV422YUYV将最后一个参数改为1即可 | | | | | | | | |

双通道测试

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| Test  CASE | Channel  ID | Iq | Roation | Crop | input resolution | output resolution | Input/out file format | Result |
| CASE1 | 0 | off | off | (0,0,640,480) | 640\*480 | 640\*480 | YUV420NV12 | sucess |
| 2 | off | off | (0,0,720,480) | 720\*480 | 720\*480 | YUV420NV12 | sucess |
| CASE2 | 4 | off | off | (0,0,1280,720) | 1280\*720 | 1280\*720 | YUV420NV12 | sucess |
| 6 | off | off | (0,0,1920,1088) | 1920\*1088 | 1920\*1088 | YUV420NV12 | sucess |
| 测试命令：  CASE1：echo vpe 0 0 0 0 0 0 10 2 0 0 1 1 1 10 > /proc/hal/uttest  CASE2：echo vpe 4 0 0 2 2 2 10 6 0 0 3 3 3 10 > /proc/hal/uttest  扩展命令：从vif拿数据，将inputsize的参数大于3即可，但要在前一步运行vif：  CASE1：echo vpe 0 0 0 0 6 0 10 2 0 0 1 6 1 10> /proc/hal/uttest  CASE3：echo vpe 4 0 0 2 6 2 10 6 0 0 3 6 3 10> /proc/hal/uttest  修改filefomat支持YUV422YUYV将最后一个参数改为1即可。  修改input resolution和output resolution改成分辨率对应的参数即可。 | | | | | | | | |

三通道测试

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Test  CASE | Channel  ID | Iq | Roation | Crop | input resolution | output resolution | Input/out file format | Result |
| CASE1 | 0 | off | off | (0,0,640,480) | 640\*480 | 640\*480 | YUV420NV12 | sucess |
| 2 | off | off | (0,0,720,480) | 720\*480 | 720\*480 | YUV420NV12 | sucess |
| 4 | off | off | (0,0,1280,720) | 1280\*720 | 1280\*720 | YUV420NV12 | sucess |
| 测试命令：  CASE1：echo vpe 0 0 0 0 0 0 10 2 0 0 1 1 1 10 4 0 0 2 2 2 10 > /proc/hal/uttest  扩展命令：从vif拿数据，将inputsize的参数大于3即可，但要在前一步运行vif：  CASE1：echo vpe 0 0 0 0 6 0 10 2 0 0 1 6 1 10 4 0 0 2 6 2 10 > /proc/hal/uttest  修改filefomat支持YUV422YUYV将最后一个参数改为1即可。  修改input resolution和output resolution改成分辨率对应的参数即可。 | | | | | | | | |

四通道测试

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Test  CASE | Channel  ID | Iq | Roation | Crop | input resolution | output resolution | Input/out file format | Result |
| CASE1 | 0 | off | off | (0,0,640,480) | 640\*480 | 640\*480 | YUV420NV12 | sucess |
| 2 | off | off | (0,0,720,480) | 720\*480 | 720\*480 | YUV420NV12 | sucess |
| 4 | off | off | (0,0,1280,720) | 1280\*720 | 1280\*720 | YUV420NV12 | sucess |
| 6 | off | off | (0,0,1920,1088) | 1920\*1088 | 1920\*1088 | YUV420NV12 | sucess |
| 测试命令：  CASE1：echo vpe 0 0 0 0 0 0 10 2 0 0 1 1 1 10 4 0 0 2 2 2 10 6 0 0 3 3 3 10 > /proc/hal/uttest  扩展命令：从vif拿数据，将inputsize的参数大于3即可，但要在前一步运行vif：  CASE1：echo vpe 0 0 0 0 6 0 10 2 0 0 1 6 1 10 4 0 0 2 6 2 10 6 0 0 3 6 3 10 > /proc/hal/uttest  修改filefomat支持YUV422YUYV将最后一个参数改为1即可。  修改input resolution和output resolution改成分辨率对应的参数即可。 | | | | | | | | |