**VDEC测试数据**

测试说明：

每个通道解码并存储40帧YUV420数据；如果开启了存DDR，则每个通道会存储3帧YUV420数据到DDR。

vdec暂不支持jpeg协议，用例暂不测试。

开启4个通道时，需要补充码流（复制已有的码流，并修改通道号即可）。

比如：将720\_576\_Chn0.h264和720\_576\_Chn0.h265分别复制一份，改为720\_576\_Chn3.h264和720\_576\_Chn3.h265即可。

单协议单通道大分辨率测试时，出现不稳定，可能挂掉的现象，非当前主要测试用例。

测试数据如下：

单协议单通道

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Test Case | Chnnel ID | CodeType | Input Resolution | Input Format | Output Resoution | Output Format | Result |
| Case 1 | 0 | H264 | 720x576 | h264 es | 720x576 | NV12 | success |
| Case 2 | 0 | H265 | 720x576 | h265 es | 720x576 | NV12 | success |
| Case 3 | 0 | JPEG | 720x576 | jpeg es | 720x576 | NA | NA |
| 测试命令：  Case 1：echo vdec 0 0 720 576 > /proc/hal/uttest  Case 2：echo vdec 0 1 720 576 > /proc/hal/uttest  Case 3：echo vdec 0 2 720 576 > /proc/hal/uttest (暂未测试)  扩展命令：  如需测试其他分辨率，则修改分辨率即可，如测试1路1080p  Case 1：echo vdec 0 0 1920 1080 > /proc/hal/uttest  Case 2：echo vdec 0 1 1920 1080 > /proc/hal/uttest  Case 3：echo vdec 0 2 1920 1080 > /proc/hal/uttest | | | | | | | |

单协议2通道不同分辨率

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Test Case | Chnnel ID | CodeType | Input Resolution | Input Format | Output Resoution | Output Format | Result |
| Case 1 | 0 | H264 | 720x576 | h264 es | 720x576 | NV12 | success |
| 1 | H264 | 1280x720 | h264 es | 1280x720 | NV12 | success |
| Case 2 | 0 | H265 | 720x576 | h265 es | 720x576 | NV12 | success |
| 1 | H265 | 1280x720 | h265 es | 1280x720 | NV12 | success |
| Case 3 | 0 | JPEG | 720x576 | jpeg es | 720x576 | NA | NA |
| 1 | JPEG | 1280x720 | jpeg es | 1280x720 | NA | NA |
| 测试命令：  Case 1：echo vdec 0 0 720 576 1 0 1280 720 > /proc/hal/uttest  Case 2：echo vdec 0 1 720 576 1 1 1280 720 > /proc/hal/uttest  Case 3：echo vdec 0 2 720 576 1 2 1280 720 > /proc/hal/uttest (暂未测试)  扩展命令：  如需测试其他分辨率，则修改分辨率即可，如测试1x1080p+1x D1  Case 1：echo vdec 0 0 1920 1080 1 0 720 576 > /proc/hal/uttest  Case 2：echo vdec 0 0 1920 1080 1 0 720 576 > /proc/hal/uttest  Case 3：echo vdec 0 0 1920 1080 1 0 720 576 > /proc/hal/uttest | | | | | | | |

单协议3通道不同分辨率

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Test Case | Chnnel ID | CodeType | Input Resolution | Input Format | Output Resoution | Output Format | Result |
| Case 1 | 0 | H264 | 720x576 | h264 es | 720x576 | NV12 | success |
| 1 | H264 | 1280x720 | h264 es | 1280x720 | NV12 | success |
| 2 | H264 | 1920x1080 | h264 es | 1920x1088 | NV12 | success |
| Case 2 | 0 | H265 | 720x576 | h265 es | 720x576 | NV12 | success |
| 1 | H265 | 1280x720 | h265 es | 1280x720 | NV12 | success |
| 2 | H265 | 1920x1080 | h265 es | 1920x1088 | NV12 | success |
| Case 3 | 0 | JPEG | 720x576 | jpeg es | 720x576 | NA | NA |
| 1 | JPEG | 1280x720 | jpeg es | 1280x720 | NA | NA |
| 2 | JPEG | 1920x1080 | jpeg es | 1920x1088 | NA | NA |
| 测试命令：  Case 1：echo vdec 0 0 720 576 1 0 1280 720 2 0 1920 1080 > /proc/hal/uttest  Case 2：echo vdec 0 1 720 576 1 1 1280 720 2 1 1920 1080 > /proc/hal/uttest  Case 3：echo vdec 0 2 720 576 1 2 1280 720 2 2 1920 1080 > /proc/hal/uttest (暂未测试)  扩展命令：  如需测试其他分辨率，则修改分辨率即可，如测试3路D1  Case 1：echo vdec 0 0 720 576 1 0 720 576 2 0 720 576 > /proc/hal/uttest  Case 2：echo vdec 0 1 720 576 1 1 720 576 2 1 720 576 > /proc/hal/uttest  Case 3：echo vdec 0 2 720 576 1 2 720 576 2 2 720 576 > /proc/hal/uttest | | | | | | | |

单协议4通道不同分辨率

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Test Case | Chnnel ID | CodeType | Input Resolution | Input Format | Output Resoution | Output Format | Result |
| Case 1 | 0 | H264 | 720x576 | h264 es | 720x576 | NV12 | success |
| 1 | H264 | 1280x720 | h264 es | 1280x720 | NV12 | success |
| 2 | H264 | 1920x1080 | h264 es | 1920x1088 | NV12 | success |
| 3 | H264 | 720x576 | h264 es | 720x576 | NV12 | success |
| Case 2 | 0 | H265 | 720x576 | h265 es | 720x576 | NV12 | success |
| 1 | H265 | 1280x720 | h265 es | 1280x720 | NV12 | success |
| 2 | H265 | 1920x1080 | h265 es | 1920x1088 | NV12 | success |
| 3 | H265 | 720x576 | h265 es | 720x576 | NV12 | success |
| Case 3 | 0 | JPEG | 720x576 | jpeg es | 720x576 | NA | NA |
| 1 | JPEG | 1280x720 | jpeg es | 1280x720 | NA | NA |
| 2 | JPEG | 1920x1080 | jpeg es | 1920x1088 | NA | NA |
| 3 | JPEG | 720x576 | jpeg es | 720x576 | NA | NA |
| 测试命令：  Case 1：echo vdec 0 0 720 576 1 0 1280 720 2 0 1920 1080 3 0 720 576 > /proc/hal/uttest  Case 2：echo vdec 0 1 720 576 1 1 1280 720 2 1 1920 1080 3 1 720 576 > /proc/hal/uttest  Case 3：echo vdec 0 2 720 576 1 2 1280 720 2 2 1920 1080 3 2 720 576 > /proc/hal/uttest (暂未测试)  扩展命令：  如需测试其他分辨率，则修改分辨率即可，如测试4路D1  Case 1：echo vdec 0 0 720 576 1 0 720 576 2 0 720 576 3 0 720 576 > /proc/hal/uttest  Case 2：echo vdec 0 1 720 576 1 1 720 576 2 1 720 576 3 1 720 576 > /proc/hal/uttest  Case 3：echo vdec 0 2 720 576 1 2 720 576 2 2 720 576 3 2 720 576 > /proc/hal/uttest | | | | | | | |

多协议3通道相同分辨率

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Test Case | Chnnel ID | CodeType | Input Resolution | Input Format | Output Resoution | Output Format | Result |
| Case 1 | 0 | H264 | 1280x720 | h264 es | 1280x720 | NV12 | success |
| 1 | H265 | 1280x720 | h265 es | 1280x720 | NV12 | success |
| 2 | JPEG | 1280x720 | Jpeg es | 1280x720 | NA | NA |
| 测试命令：  Case 1：echo vdec 0 0 720 576 1 1 1280 720 2 2 1920 1080 > /proc/hal/uttest (暂未测试)  扩展命令：  如需测试其他分辨率，则修改分辨率即可，如测试3路D1  Case 1：echo vdec 0 0 720 576 1 1 720 576 2 2 720 576 > /proc/hal/uttest | | | | | | | |

多协议4通道不同分辨率

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Test Case | Chnnel ID | CodeType | Input Resolution | Input Format | Output Resoution | Output Format | Result |
| Case 1 | 0 | H264 | 720x576 | h264 es | 720x576 | NV12 | success |
| 1 | H265 | 1280x720 | h265 es | 1280x720 | NV12 | success |
| 2 | H265 | 1920x1080 | h265 es | 1920x1080 | NV12 | success |
| 3 | JPEG | 720x576 | Jpeg es | 2048x1520 | NA | NA |
| 测试命令：  Case 1：echo vdec 0 0 720 576 1 1 1280 720 2 1 1920 1080 3 2 720 576 > /proc/hal/uttest (暂未测试)  扩展命令：  如需测试其他分辨率，则修改分辨率即可，如测试4路720p  Case 1：echo vdec 0 0 1280 720 1 1 1280 720 2 1 1280 720 3 2 1280 720 > /proc/hal/uttest | | | | | | | |

单协议单通道大分辨率

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Test Case | Chnnel ID | CodeType | Input Resolution | Input Format | Output Resoution | Output Format | Result |
| Case 1 | 0 | H264 | 2048x1520 | h264 es | 2048x1520 | NV12 | success |
| Case 2 | 0 | H265 | 2048x1520 | h265 es | 2048x1520 | NV12 | success |
| Case 3 | 0 | JPEG | 2048x1520 | jpeg es | 2048x1520 | NA | NA |
| 测试命令：  Case 1：echo vdec 3 0 2048 1520 > /proc/hal/uttest  Case 2：echo vdec 3 1 2048 1520 > /proc/hal/uttest  Case 3：echo vdec 3 2 2048 1520 > /proc/hal/uttest (暂未测试)  扩展命令：  如需测试其他分辨率，则修改分辨率即可，如测试1路2160p  Case 1：echo vdec 3 0 3840 2160 > /proc/hal/uttest  Case 2：echo vdec 3 1 3840 2160 > /proc/hal/uttest  Case 3：echo vdec 3 2 3840 2160 > /proc/hal/uttest | | | | | | | |

混合协议多通道(仅H264和H265)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Test Case | Chnnel ID | CodeType | Input Resolution | Input Format | Output Resoution | Output Format | Result |
| Case 1 | 0 | H265 | 720x576 | h265 es | 720x576 | NV12 | success |
| 1 | H264 | 1280x720 | h264 es | 1280x720 | NV12 | success |
| 2 | H265 | 1920x1080 | h265 es | 1920x1080 | NV12 | success |
| 3 | H264 | 720x576 | h264 es | 720x576 | NV12 | success |
| 测试命令：  Case 1：echo vdec 0 1 720 576 1 0 1280 720 2 1 1920 1080 3 0 720 576 > /proc/hal/uttest  扩展命令：  如需测试其他分辨率，则修改分辨率即可，如测试4路D1  Case 1：echo vdec 0 1 720 576 1 0 720 576 2 1 720 576 3 0 720 576 > /proc/hal/uttest | | | | | | | |

注：另附测试用例补充

**VDEC测试用例补充**

H264典型分辨率(部分分辨率暂未测试)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Test Case | Chnnel ID | CodeType | Input Resolution | Input Format | Output Resoution | Output Format | Result |
| Case 1 | 0 | H264 | 720x576 | h264 es | 720x576 | NV12 | success |
| Case 2 | 1 | H264 | 1280x720 | h264 es | 1280x720 | NV12 | success |
| Case 3 | 2 | H264 | 1920x1080 | h264 es | 1920x1080 | NV12 | success |
| Case 4 | 3 | H264 | 2048x1520 | h264 es | 2048x1520 | NV12 | success |
| Case 5 | 4 | H264 | 3840x2160 | h264 es | 3840x2160 | NV12 | NA |
| 测试命令：  echo vdec 0 0 720 576 > /proc/hal/uttest  echo vdec 1 0 1280 720 > /proc/hal/uttest  echo vdec 2 0 1920 1080 > /proc/hal/uttest  echo vdec 3 0 2048 1520 > /proc/hal/uttest  echo vdec 4 0 3840 2160 > /proc/hal/uttest (暂未测试) | | | | | | | |

H265典型分辨率(部分分辨率暂未测试)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Test Case | Chnnel ID | CodeType | Input Resolution | Input Format | Output Resoution | Output Format | Result |
| Case 1 | 0 | H265 | 720x576 | h265 es | 720x576 | NV12 | success |
| Case 2 | 1 | H265 | 1280x720 | h265 es | 1280x720 | NV12 | success |
| Case 3 | 2 | H265 | 1920x1080 | h265 es | 1920x1080 | NV12 | success |
| Case 4 | 3 | H265 | 2048x1520 | h265 es | 2048x1520 | NV12 | success |
| Case 5 | 4 | H265 | 3840x2160 | h265 es | 3840x2160 | NV12 | NA |
| 测试命令：  echo vdec 0 1 720 576 > /proc/hal/uttest  echo vdec 1 1 1280 720 > /proc/hal/uttest  echo vdec 2 1 1920 1080 > /proc/hal/uttest  echo vdec 3 1 2048 1520 > /proc/hal/uttest  echo vdec 4 1 3840 2160 > /proc/hal/uttest (暂未测试) | | | | | | | |