Please test under the following constellation:

Compiz settings workspaces

•••	CompizConfig-Einstellungsverwaltung							
2	Allgemein	Darstellung	Fokus- & Anhebeverhalten	Tastenkombinationen	Schreibtischgröße			
	Virtuelle hor	rizontale Größe			4		+)(•	×
Filter	Senkrechte	virtuelle Größe			1	-	+)(-	×
Allgemeine Optionen								
Allgemeine Compiz-Optionen								
Zurück								

Compiz Plug-in settings Scale

	CompizConfig-Einstellungsverwaltung			
	Erscheinung Verhalten Tastenkombinationen			
	Tastenkombinationen schalten den Skalierungsmodus um		~	X
Eilter	Maustastenbelegungen schalten den Skalierungsmodus um			
	Fensterauswahl initiieren	Nichts		X
X	Fensterauswahl initiieren	<super>w</super>		×
Skalieren	Fensterauswahl initiieren	Deaktiviert		×
Fenster skalieren	Fensterauswahl für alle Fenster initiieren	BottomRight		X
Diese Frweiterung	Fensterauswahl für alle Fenster initiieren	Deaktiviert		
benutzen	Fensterauswahl für alle Fenster initiieren	<shift><super>w</super></shift>		
Ckaliaran aktiviaran	Fensterauswahl für Fenstergruppe initiieren	Nichts		
	Fensterauswahl für Fenstergruppe initiieren	Deaktiviert		
	Eensterauswahl für Fenstergruppe initiieren	Deaktiviert		
	Fensterauswahl für Fenster in aktueller Ausgabe initiieren	Nichts	1	X
	Fensterauswahl für Fenster in aktueller Ausgabe initiieren	Deaktiviert		×
	Fensterauswahl für Fenster in aktueller Ausgabe initiieren	Deaktiviert		X
	In einen leeren Bereich klicken Skala beenden		\$	X
Zurück				

Compiz Expo settings

● ● ● CompizConfig-Einstellungsverwaltung						
	Tastenkombinationen Verhalten Erscheinung					
	ше Ехро Кеу	<super>s</super>				
Filter	Expo Button	Deaktiviert				
	Expo Corner/Edge	BottomLeft				
	Double-Click Time	500 -	+ 🗵			
Expo	Drag & Drop Button	Button1	۷			
Expose all viewports and	Exit Expo Button	Button3	۷			
freely arrange open windows amongst them	Next Viewport Button	Button5	1			
	Previous Viewport Button	Button4	۷ 🗴			
benutzen						
_						
Z Expo aktivieren						
Zurück						

Workspace 1: ,Videos' window with playable h.264 AVC video which one is supported through hardware acceleration in intel i965 driver

Workspace 2: terminal with ,intel_gpu_top' to check if hardware acceleration is used

Workspace 3: normal program window e.g. ,solitaire'

Overview in Expo

active Desk	top is always highligh	nted

move to workspace 1 with Expo and make Workspace 1 active

open terminal in ,Videos' window with ,open with terminal'

start video (h.264 AVC) with mpv in terminal

mpv starts with hardware acceleration support for i965 intel driver (no issuses)



move mouse to the right bottom corner to activate Plug-in Scale (for all windows on all workspaces). You can see in the scaled windows the fluently motion of pictures



You see the scaled mpv window has a flowing movement of pictures (normal) and the 3D-Render Engine in scaled terminal window on workspace 2 shows a relative constantly consumption of GPU.

Now select the scaled terminal window on workspace 2 (with ,intel_gpu_top' output and you see the of the consumption of the 3D-Render Engine drops down nearly zero.

• • •			tux@t	ux-Aspir	e-V5-57	3G: ~			
intel-gpu-top -	375/ 376	MHz;	45%	RC6;	0.37	Watts;	55	irqs/s	
IMC reads:	0	MiB/s							
IMC writes:	106	MiB/s							
ENGINE	BUSY	(MI_SEMA I	MI_WAIT
Render/3D/0	2.99%							0%	0%
Blitter/0	0.00%	1_					1	0%	0%
Video/0	4.00%	1					1	0%	0%
VideoEnhance/0	0.00%	1					1	0%	0%

If you activate Scale plug-in (move mouse to right bottom corner) the scaled mpv video shows stuttering pictures (no flowing picture movement).



The program mpv shows the following warning message:

Audio/Video desynchronisation detected! Possible reasons include too slow hardware, temporary CPU spikes, broken drivers, and broken files. Audio position will not match to the video (see A-V status field).

• • • tux@tux-Aspire-V5-573G: ~/Videos hr__tierisch-schlau-waschbaeren3-banse_syn2_1920x1080-50p-8000kbit.mp4 Mark Forster - Wir sind groß.mp4' Test-Encoding 'Test Hd - MiO-E_SWEnc_F1080p30_RF22_4.1.mp4' Test-TS_in_100sec.mp4 TS_in_100sec_h264.mp4 tux@tux-Aspire-V5-573G:~/Videos\$ tux@tux-Aspire-V5-573G:~/Videos\$ mpv TS in 100sec h264.mp4 (+) Video --vid=1 (*) (h264 1280x720 25.000fps) (+) Audio --aid=1 (*) (aac 2ch 48000Hz) [vaapi] libva: /usr/lib/x86_64-linux-gnu/dri/iHD_drv_video.so init failed Using hardware decoding (vaapi). AO: [pulse] 48000Hz stereo 2ch float VO: [gpu] 1280x720 vaapi[nv12] AV: 00:00:04 / 00:01:51 (4%) A-V: 0.000 Audio/Video desynchronisation detected! Possible reasons include too slow hardware, temporary CPU spikes, broken drivers, and broken files. Audio position will not match to the video (see A-V status field). AV: 00:01:28 / 00:01:51 (79%) A-V: 0.000 Dropped: 1970 Exiting... (Quit) tux@tux-Aspire-V5-573G:~/Videos\$

If you make the same procedure with vlc, vlc give the following error message after a while:

```
[h264 @ 0x7fed74e0e340] mmco: unref short failure
[h264 @ 0x7fed74df1640] co located POCs unavailable
[h264 @ 0x7fed74dd4a40] mmco: unref short failure
[h264 @ 0x7fed74df1640] mmco: unref short failure
```



Please note that older Intel CPUs (with integrated GPU) up to Haswell are supported with the i965 Intel driver. However, newer CPUs (with integrated GPU) use the newer iHD driver from Intel, which may behave differently under certain circumstances!

I am aware that this is just a less important error that probably only occurs with very few users. Same behavior was on an notebook with Intel graphics (Sandy Bridge) without Optimus and Linux Mint MATE (with Compiz window manger) 19.3. Same behavior also with Linux Mint MATE (with Compiz window manger) 20.1 with my notebook with Optimus graphics.

On the other hand, under the Nividia driver (closed source) mpv and vlc works without any problems. Either the modules for the Intel hardware acceleration in the programs vlc and mpv have a small error or the Intel driver may not be addressed correctly or has an error.

The programs that are based on gstreamer (gst-play-1.0 and parole (based on gstreamer) have been working perfectly with Intel graphics and Nvidia graphics since version 1.18 (installed by a ppa). Gstreamer worked with the standard version of Ubuntu 20.04 (with gstreamer 1.16) only with Intel graphics, since apparently there was no support for vdpau or it was not compiled in.

Or maybe it's a bug in Compiz

Strangely enough, mpv and vlc do not show this behavior in the Intel driver in new desktop environments (Ubuntu with Gnome 3 (with addon) and Elementary OS with Pantheon)! There, scaled video windows with an overview of all windows from all workspaces are displayed normally in a smooth sequence of images.