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1080p to 4K Neural Net Upscale

ideal for 4:4:4 1080p master/prores video (chroma resolution is fullsize same as 4K 4:2:0) - nnedi3_rpow2 scaler

Download

[AVISynth](#)
[nnedi3_rpow](#)
[FFmpeg](#)
[Deblock](#)

[uhqresize.avs](#)

```
input = "input.mov"  
aud = ffaudiosource(input)  
ffvideosource(input)  
ColorYUV(levels="PC->TV")  
ConvertToYUV444  
nnedi3_rpow2(rfactor=2,nns=4,cshift="Spline36Resize",pscrn=4,qual=2)  
aWarpSharp2(type=1,depth=10)  
audiodub(aud)
```

* upscale by factor 2 and correct shifted colors by Spline36Resize, gently sharpened.
add fwidth=3840, fheight=2160 to resize

Process 1080p saved as 1080i

Assume PsF material
AssumeFieldBased()
Deblock(quant=25, aOffset=0, bOffset=0, planes="yuv")
Weave

[uhqresize.bat](#)

```
c:\programs\stream\ffmpeg -i "uhqresize.avs" -pix_fmt yuv420p -codec:v libx265 -c:a libopus -b:a 320k -crf 18 -preset slow output.mkv
```

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