License is valid.

Launching job on lane default target 100810stbdt ...

Running job on master node hostname 100810stbdt

[CPU: 85.6 MB] Project P9 Job J10 Started

[CPU: 85.6 MB] Master running v3.1.0, worker running v3.1.0

[CPU: 85.8 MB] Running on lane default

[CPU: 85.8 MB] Resources allocated:

[CPU: 85.8 MB] Worker: 100810stbdt

[CPU: 85.8 MB] CPU : [0]

[CPU: 85.8 MB] GPU : [0]

[CPU: 85.8 MB] RAM : [0]

[CPU: 85.8 MB] SSD : False

[CPU: 85.8 MB] --------------------------------------------------------------

[CPU: 85.8 MB] Importing job module for job type topaz\_denoise...

[CPU: 210.7 MB] Job ready to run

[CPU: 210.7 MB] \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

[CPU: 210.7 MB] Topaz is a particle detection tool created by Tristan Bepler and Alex J. Noble. Citations: - Bepler, T., Morin, A., Rapp, M. et al. Positive-unlabeled convolutional neural networks for particle picking in cryo-electron micrographs. Nat Methods 16, 1153-1160 (2019) doi:10.1038/s41592-019-0575-8 - Bepler, T., Noble, A.J., Berger, B. Topaz-Denoise: general deep denoising models for cryoEM. bioRxiv 838920 (2019) doi: https://doi.org/10.1101/838920 Structura Biotechnology Inc. and cryoSPARC do not license Topaz nor distribute Topaz binaries. Please ensure you have your own copy of Topaz licensed and installed under the terms of its GNU General Public License v3.0, available for review at: https://github.com/tbepler/topaz/blob/master/LICENSE. \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

[CPU: 211.5 MB] Starting Topaz process using version 0.2.4...

[CPU: 211.5 MB] Using Topaz provided pretrained model.

[CPU: 211.5 MB] Beginning Topaz denoising command by running command /common/app/topaz/0.2.5/envs/topaz/bin/topaz denoise [MICROGRAPH PATHS EXCLUDED FOR LEGIBILITY] --device 0 --format mrc --normalize --patch-size 1536 --patch-padding 256 --output /local\_slow/cryosparc/projects/P9/J10/denoised\_micrographs --lowpass 1 --gaussian 0 --inv-gaussian 0 --deconv-patch 1 --pixel-cutoff 0 --model unet

[CPU: 211.5 MB] Distributing over 4 processes...

[CPU: 211.7 MB] # using device=0 with cuda=True

[CPU: 211.7 MB] # Loading model: unet

[CPU: 211.7 MB] Traceback (most recent call last):

[CPU: 211.7 MB] File "/common/app/topaz/0.2.5/envs/topaz/bin/topaz", line 11, in <module>

[CPU: 211.7 MB] load\_entry\_point('topaz-em==0.2.4', 'console\_scripts', 'topaz')()

[CPU: 211.7 MB] File "/common/app/topaz/0.2.5/envs/topaz/lib/python3.6/site-packages/topaz/main.py", line 148, in main

[CPU: 211.7 MB] args.func(args)

[CPU: 211.7 MB] File "/common/app/topaz/0.2.5/envs/topaz/lib/python3.6/site-packages/topaz/commands/denoise.py", line 547, in main

[CPU: 211.7 MB] , use\_cuda=use\_cuda

[CPU: 211.7 MB] File "/common/app/topaz/0.2.5/envs/topaz/lib/python3.6/site-packages/topaz/commands/denoise.py", line 292, in denoise\_image

[CPU: 211.7 MB] mic += dn.denoise(model, x, patch\_size=patch\_size, padding=padding)

[CPU: 211.7 MB] File "/common/app/topaz/0.2.5/envs/topaz/lib/python3.6/site-packages/topaz/denoise.py", line 68, in denoise

[CPU: 211.7 MB] return denoise\_patches(model, x, patch\_size, padding=padding)

[CPU: 211.7 MB] File "/common/app/topaz/0.2.5/envs/topaz/lib/python3.6/site-packages/topaz/denoise.py", line 92, in denoise\_patches

[CPU: 211.7 MB] yij = model(xij).squeeze() # denoise the patch

[CPU: 211.7 MB] File "/common/app/topaz/0.2.5/envs/topaz/lib/python3.6/site-packages/torch/nn/modules/module.py", line 727, in \_call\_impl

[CPU: 211.7 MB] result = self.forward(\*input, \*\*kwargs)

[CPU: 211.7 MB] File "/common/app/topaz/0.2.5/envs/topaz/lib/python3.6/site-packages/topaz/denoise.py", line 517, in forward

[CPU: 211.7 MB] y = self.dec1(h)

[CPU: 211.7 MB] File "/common/app/topaz/0.2.5/envs/topaz/lib/python3.6/site-packages/torch/nn/modules/module.py", line 727, in \_call\_impl

[CPU: 211.7 MB] result = self.forward(\*input, \*\*kwargs)

[CPU: 211.7 MB] File "/common/app/topaz/0.2.5/envs/topaz/lib/python3.6/site-packages/torch/nn/modules/container.py", line 117, in forward

[CPU: 211.7 MB] input = module(input)

[CPU: 211.7 MB] File "/common/app/topaz/0.2.5/envs/topaz/lib/python3.6/site-packages/torch/nn/modules/module.py", line 727, in \_call\_impl

[CPU: 211.7 MB] result = self.forward(\*input, \*\*kwargs)

[CPU: 211.7 MB] File "/common/app/topaz/0.2.5/envs/topaz/lib/python3.6/site-packages/torch/nn/modules/activation.py", line 714, in forward

[CPU: 211.7 MB] return F.leaky\_relu(input, self.negative\_slope, self.inplace)

[CPU: 211.7 MB] File "/common/app/topaz/0.2.5/envs/topaz/lib/python3.6/site-packages/torch/nn/functional.py", line 1309, in leaky\_relu

[CPU: 211.7 MB] result = torch.\_C.\_nn.leaky\_relu(input, negative\_slope)

[CPU: 211.7 MB] RuntimeError: CUDA out of memory. Tried to allocate 784.00 MiB (GPU 0; 7.92 GiB total capacity; 2.25 GiB already allocated; 280.00 MiB free; 3.08 GiB reserved in total by PyTorch)

[CPU: 211.7 MB] # using device=0 with cuda=True

[CPU: 211.7 MB] # Loading model: unet

[CPU: 211.7 MB] Traceback (most recent call last):

[CPU: 211.7 MB] File "/common/app/topaz/0.2.5/envs/topaz/bin/topaz", line 11, in <module>

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[CPU: 211.7 MB] result = self.forward(\*input, \*\*kwargs)

[CPU: 211.7 MB] File "/common/app/topaz/0.2.5/envs/topaz/lib/python3.6/site-packages/topaz/denoise.py", line 476, in forward

[CPU: 211.7 MB] p1 = self.enc1(x)

[CPU: 211.7 MB] File "/common/app/topaz/0.2.5/envs/topaz/lib/python3.6/site-packages/torch/nn/modules/module.py", line 727, in \_call\_impl

[CPU: 211.7 MB] result = self.forward(\*input, \*\*kwargs)

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[CPU: 211.7 MB] input = module(input)

[CPU: 211.7 MB] # using device=0 with cuda=True

[CPU: 211.7 MB] File "/common/app/topaz/0.2.5/envs/topaz/lib/python3.6/site-packages/torch/nn/modules/module.py", line 727, in \_call\_impl

[CPU: 211.7 MB] # Loading model: unet

[CPU: 211.7 MB] result = self.forward(\*input, \*\*kwargs)

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[CPU: 211.7 MB] File "/common/app/topaz/0.2.5/envs/topaz/lib/python3.6/site-packages/topaz/commands/denoise.py", line 547, in main

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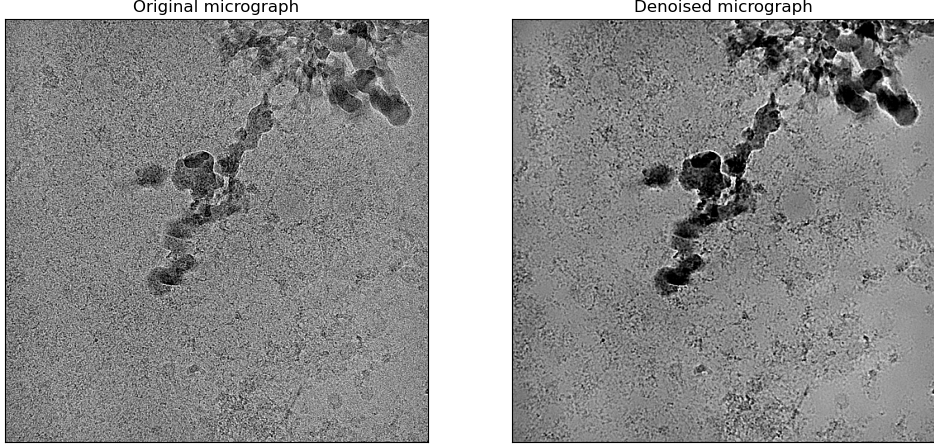
[CPU: 211.7 MB] # 782 of 784 completed.

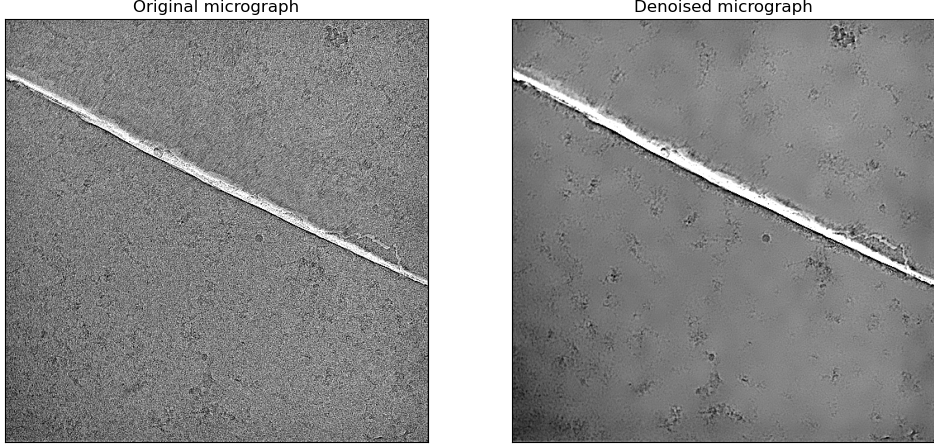
[CPU: 211.7 MB] # 783 of 784 completed.

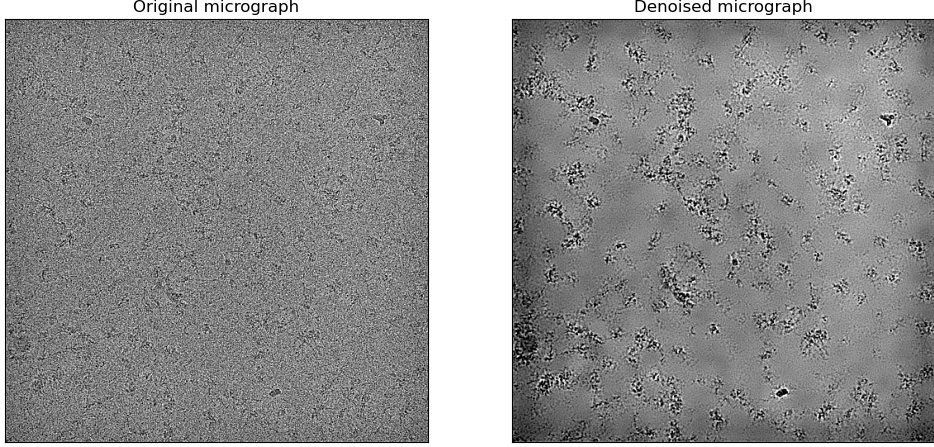
[CPU: 211.7 MB] # 784 of 784 completed.

[CPU: 212.0 MB] Topaz denoising command complete in 3058.452s.

[CPU: 212.0 MB] Converting Topaz outputs to cryoSPARC outputs...

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[CPU: 234.2 MB] Finished Topaz process in 3062.78s

[CPU: 234.2 MB] --------------------------------------------------------------

[CPU: 234.2 MB] Compiling job outputs...

[CPU: 234.2 MB] Passing through outputs for output group denoised\_micrographs from input group micrographs

[CPU: 234.4 MB] This job outputted results ['micrograph\_blob', 'micrograph\_blob\_denoised']

[CPU: 234.4 MB] Loaded output dset with 3136 items

[CPU: 234.4 MB] Passthrough results ['ctf', 'ctf\_stats', 'micrograph\_blob\_non\_dw', 'mscope\_params']

[CPU: 235.1 MB] Loaded passthrough dset with 3136 items

[CPU: 235.2 MB] Intersection of output and passthrough has 3136 items

[CPU: 234.4 MB] Checking outputs for output group denoised\_micrographs

[CPU: 234.9 MB] Updating job size...

[CPU: 234.9 MB] Exporting job and creating csg files...

[CPU: 234.9 MB] \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

[CPU: 234.9 MB] Job complete. Total time 3073.47s

License is valid.

Launching job on lane default target 100810stbdt ...

Running job on master node hostname 100810stbdt

[CPU: 85.6 MB] Project P9 Job J10 Started

[CPU: 85.6 MB] Master running v3.1.0, worker running v3.1.0

[CPU: 85.8 MB] Running on lane default

[CPU: 85.8 MB] Resources allocated:

[CPU: 85.8 MB] Worker: 100810stbdt

[CPU: 85.8 MB] CPU : [0]

[CPU: 85.8 MB] GPU : [0]

[CPU: 85.8 MB] RAM : [0]

[CPU: 85.8 MB] SSD : False

[CPU: 85.8 MB] --------------------------------------------------------------

[CPU: 85.8 MB] Importing job module for job type topaz\_denoise...

[CPU: 210.7 MB] Job ready to run

[CPU: 210.7 MB] \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

[CPU: 210.7 MB] Topaz is a particle detection tool created by Tristan Bepler and Alex J. Noble. Citations: - Bepler, T., Morin, A., Rapp, M. et al. Positive-unlabeled convolutional neural networks for particle picking in cryo-electron micrographs. Nat Methods 16, 1153-1160 (2019) doi:10.1038/s41592-019-0575-8 - Bepler, T., Noble, A.J., Berger, B. Topaz-Denoise: general deep denoising models for cryoEM. bioRxiv 838920 (2019) doi: https://doi.org/10.1101/838920 Structura Biotechnology Inc. and cryoSPARC do not license Topaz nor distribute Topaz binaries. Please ensure you have your own copy of Topaz licensed and installed under the terms of its GNU General Public License v3.0, available for review at: https://github.com/tbepler/topaz/blob/master/LICENSE. \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

[CPU: 211.5 MB] Starting Topaz process using version 0.2.4...

[CPU: 211.5 MB] Using Topaz provided pretrained model.

[CPU: 211.5 MB] Beginning Topaz denoising command by running command /common/app/topaz/0.2.5/envs/topaz/bin/topaz denoise [MICROGRAPH PATHS EXCLUDED FOR LEGIBILITY] --device 0 --format mrc --normalize --patch-size 1536 --patch-padding 256 --output /local\_slow/cryosparc/projects/P9/J10/denoised\_micrographs --lowpass 1 --gaussian 0 --inv-gaussian 0 --deconv-patch 1 --pixel-cutoff 0 --model unet

[CPU: 211.5 MB] Distributing over 4 processes...

[CPU: 211.7 MB] # using device=0 with cuda=True

[CPU: 211.7 MB] # Loading model: unet

[CPU: 211.7 MB] Traceback (most recent call last):

[CPU: 211.7 MB] File "/common/app/topaz/0.2.5/envs/topaz/bin/topaz", line 11, in <module>

[CPU: 211.7 MB] load\_entry\_point('topaz-em==0.2.4', 'console\_scripts', 'topaz')()

[CPU: 211.7 MB] File "/common/app/topaz/0.2.5/envs/topaz/lib/python3.6/site-packages/topaz/main.py", line 148, in main

[CPU: 211.7 MB] args.func(args)

[CPU: 211.7 MB] File "/common/app/topaz/0.2.5/envs/topaz/lib/python3.6/site-packages/topaz/commands/denoise.py", line 547, in main

[CPU: 211.7 MB] , use\_cuda=use\_cuda

[CPU: 211.7 MB] File "/common/app/topaz/0.2.5/envs/topaz/lib/python3.6/site-packages/topaz/commands/denoise.py", line 292, in denoise\_image

[CPU: 211.7 MB] mic += dn.denoise(model, x, patch\_size=patch\_size, padding=padding)

[CPU: 211.7 MB] File "/common/app/topaz/0.2.5/envs/topaz/lib/python3.6/site-packages/topaz/denoise.py", line 68, in denoise

[CPU: 211.7 MB] return denoise\_patches(model, x, patch\_size, padding=padding)

[CPU: 211.7 MB] File "/common/app/topaz/0.2.5/envs/topaz/lib/python3.6/site-packages/topaz/denoise.py", line 92, in denoise\_patches

[CPU: 211.7 MB] yij = model(xij).squeeze() # denoise the patch

[CPU: 211.7 MB] File "/common/app/topaz/0.2.5/envs/topaz/lib/python3.6/site-packages/torch/nn/modules/module.py", line 727, in \_call\_impl

[CPU: 211.7 MB] result = self.forward(\*input, \*\*kwargs)

[CPU: 211.7 MB] File "/common/app/topaz/0.2.5/envs/topaz/lib/python3.6/site-packages/topaz/denoise.py", line 517, in forward

[CPU: 211.7 MB] y = self.dec1(h)

[CPU: 211.7 MB] File "/common/app/topaz/0.2.5/envs/topaz/lib/python3.6/site-packages/torch/nn/modules/module.py", line 727, in \_call\_impl

[CPU: 211.7 MB] result = self.forward(\*input, \*\*kwargs)

[CPU: 211.7 MB] File "/common/app/topaz/0.2.5/envs/topaz/lib/python3.6/site-packages/torch/nn/modules/container.py", line 117, in forward

[CPU: 211.7 MB] input = module(input)

[CPU: 211.7 MB] File "/common/app/topaz/0.2.5/envs/topaz/lib/python3.6/site-packages/torch/nn/modules/module.py", line 727, in \_call\_impl

[CPU: 211.7 MB] result = self.forward(\*input, \*\*kwargs)

[CPU: 211.7 MB] File "/common/app/topaz/0.2.5/envs/topaz/lib/python3.6/site-packages/torch/nn/modules/activation.py", line 714, in forward

[CPU: 211.7 MB] return F.leaky\_relu(input, self.negative\_slope, self.inplace)

[CPU: 211.7 MB] File "/common/app/topaz/0.2.5/envs/topaz/lib/python3.6/site-packages/torch/nn/functional.py", line 1309, in leaky\_relu

[CPU: 211.7 MB] result = torch.\_C.\_nn.leaky\_relu(input, negative\_slope)

[CPU: 211.7 MB] RuntimeError: CUDA out of memory. Tried to allocate 784.00 MiB (GPU 0; 7.92 GiB total capacity; 2.25 GiB already allocated; 280.00 MiB free; 3.08 GiB reserved in total by PyTorch)

[CPU: 211.7 MB] # using device=0 with cuda=True

[CPU: 211.7 MB] # Loading model: unet

[CPU: 211.7 MB] Traceback (most recent call last):

[CPU: 211.7 MB] File "/common/app/topaz/0.2.5/envs/topaz/bin/topaz", line 11, in <module>

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[CPU: 211.7 MB] result = self.forward(\*input, \*\*kwargs)

[CPU: 211.7 MB] File "/common/app/topaz/0.2.5/envs/topaz/lib/python3.6/site-packages/topaz/denoise.py", line 476, in forward

[CPU: 211.7 MB] p1 = self.enc1(x)

[CPU: 211.7 MB] File "/common/app/topaz/0.2.5/envs/topaz/lib/python3.6/site-packages/torch/nn/modules/module.py", line 727, in \_call\_impl

[CPU: 211.7 MB] result = self.forward(\*input, \*\*kwargs)

[CPU: 211.7 MB] File "/common/app/topaz/0.2.5/envs/topaz/lib/python3.6/site-packages/torch/nn/modules/container.py", line 117, in forward

[CPU: 211.7 MB] input = module(input)

[CPU: 211.7 MB] # using device=0 with cuda=True

[CPU: 211.7 MB] File "/common/app/topaz/0.2.5/envs/topaz/lib/python3.6/site-packages/torch/nn/modules/module.py", line 727, in \_call\_impl

[CPU: 211.7 MB] # Loading model: unet

[CPU: 211.7 MB] result = self.forward(\*input, \*\*kwargs)

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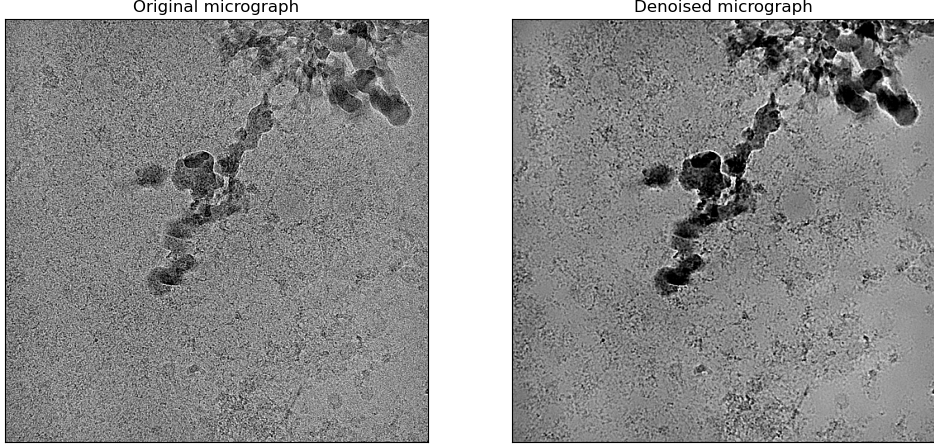
[CPU: 211.7 MB] # 782 of 784 completed.

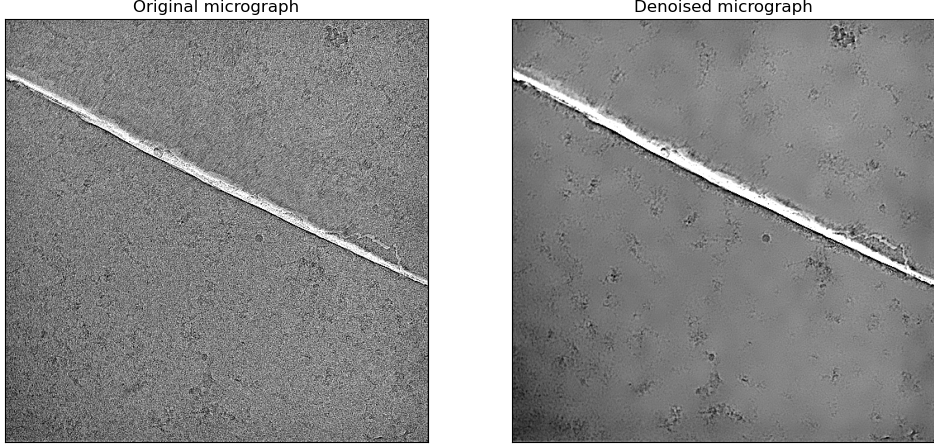
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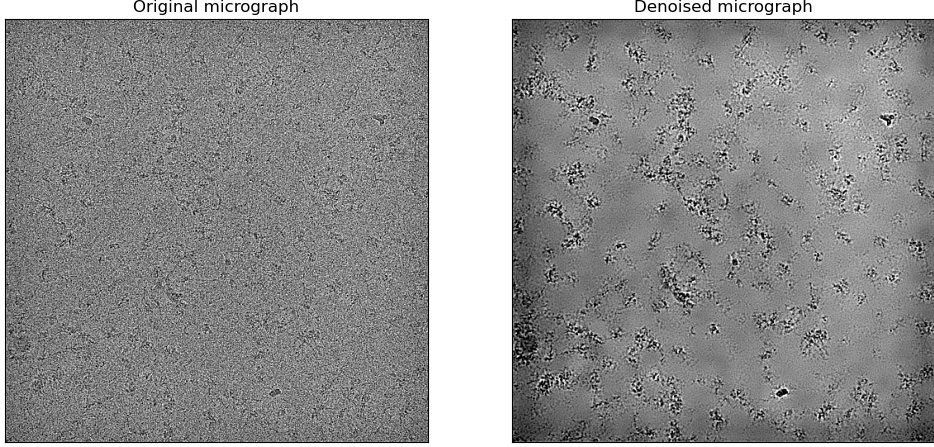
[CPU: 211.7 MB] # 784 of 784 completed.

[CPU: 212.0 MB] Topaz denoising command complete in 3058.452s.

[CPU: 212.0 MB] Converting Topaz outputs to cryoSPARC outputs...

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[CPU: 234.2 MB] Finished Topaz process in 3062.78s

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[CPU: 234.2 MB] Compiling job outputs...

[CPU: 234.2 MB] Passing through outputs for output group denoised\_micrographs from input group micrographs

[CPU: 234.4 MB] This job outputted results ['micrograph\_blob', 'micrograph\_blob\_denoised']

[CPU: 234.4 MB] Loaded output dset with 3136 items

[CPU: 234.4 MB] Passthrough results ['ctf', 'ctf\_stats', 'micrograph\_blob\_non\_dw', 'mscope\_params']

[CPU: 235.1 MB] Loaded passthrough dset with 3136 items

[CPU: 235.2 MB] Intersection of output and passthrough has 3136 items

[CPU: 234.4 MB] Checking outputs for output group denoised\_micrographs

[CPU: 234.9 MB] Updating job size...

[CPU: 234.9 MB] Exporting job and creating csg files...

[CPU: 234.9 MB] \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

[CPU: 234.9 MB] Job complete. Total time 3073.47s