

# 曙光计算云百万核时计划

《计算服务免费试用》



首次免费体验30天

10000核·时 / 1000卡·时



## 超大规模且持续扩展的算力池











Q | AC.sugon.com :

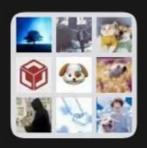


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2. 曙光算力官网: <a href="https://ac.sugon.com/ac/console3/index.html#/">https://ac.sugon.com/ac/console3/index.html#/</a>

| 3 | 3. 曙光算力使用答疑群 | <b>:</b> : |  |  |
|---|--------------|------------|--|--|
|   |              |            |  |  |
|   |              |            |  |  |
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|   |              |            |  |  |
|   |              |            |  |  |



群聊: 计图挑战赛-曙光支持群



该二维码7天内(7月21日前)有效,重新进入将更新

#### 4. 讲入e-shell

```
### 2 | 18gm |
```

#### 5. 分配dcu资源

**可访问队列** 数据更新时间: 2023-06-29 14:27:11

xahdtest 空闲节点: 56

7285-32C-128G-4卡-3 总节点数: 103

运行作业数: 22

▼ 展开

1 | salloc -N 1 -n 8 --gres=dcu:1 -p xahdtest (队列名) --exclusive

#### 6. 登陆计算节点

#### 7. load anaconda以及dtk环境

|                          |  | /public/software/modules/base      |  |                                    |
|--------------------------|--|------------------------------------|--|------------------------------------|
| naconda2/4.3.0           | compiler/intel/2018.5.274              | mathlib/grib2/2.0.7-intel-2017     | mathlib/libxc/4.3.4-intel-2017         | mathlib/zlib/1.2.8-intel-2017      |
| naconda3/5.2.0           | compiler/intel/2020.1.217              | mathlib/grib_api/1.28.0-intel-2017 | mathlib/netcdf/3.6.3-intel-2017        | mpi/hpcx/2.4.1-gcc-7.3.1           |
| utomake/1.16.1           | compiler/intel/2021.3.0                | mathlib/gs1/2.6-intel-2017         | mathlib/netcdf/4.4.1-intel-2017        | mpi/hpcx/2.4.1-intel-2017          |
| ompiler/cmake/3.15.6     | compiler/rocm/3.3                      | mathlib/hdf4/4.2r1-intel-2017      | mathlib/opencv/3.1.0-gcc-7.3.1         | mpi/hpcx/2.7.4-gcc-7.3.1           |
| ompiler/cmake/3.20.4     | mathlib/antlr/2.7.7-intel-2017         | mathlib/hdf5/1.8.20-intel-2017     | mathlib/openjpeg/2.3.1-intel-2017      | mpi/hpcx/gcc-7.3.1                 |
| ompiler/cmake/3.23.3     | mathlib/blas/3.5.0-intel-2017          | mathlib/htslib/1.9-gcc-7.3.1       | mathlib/pnetcdf/1.12.0-impi-2017       | mpi/hpcx/intel-2017.5.239          |
| ompiler/devtoolset/7.3.1 | mathlib/boost/1.67.0-intel-2017        | mathlib/ioapi/3.2-intel-2017       | mathlib/pnetcdf/1.12.1-hpcx-intel-2017 | mpi/intelmpi/2017.4.239            |
| compiler/dtk/21.04       | mathlib/elpa/2019.05.001-impi-2020     | mathlib/jasper/1.900.1-gcc-7.3.1   | mathlib/pnetcdf/1.8.1-hpcx-intel-2017  | mpi/intelmpi/2018.4.274            |
| ompiler/dtk/22.04.2      | mathlib/fftw/3.3.10-intelmpi_21-double | mathlib/jasper/1.900.1-intel-2017  | mathlib/scalapack/2.0.0-intel-2017     | mpi/intelmpi/2020.1.217            |
| ompiler/dtk/22.10        | mathlib/fftw/3.3.10-intelmpi_21-single | mathlib/lapack/3.8.0-gcc-7.3.1     | mathlib/szip/2.1.1-intel-2017          | mpi/intelmpi/2021.3.0              |
| ompiler/dtk/22.10.1      | mathlib/fftw/3.3.8-gcc-7.3.1-double    | mathlib/lapack/3.8.0-intel-2017    | mathlib/udunits/2.2.25-intel-2017      | mpi/mpich/3.3.2-gcc-7.3.1          |
| ompiler/dtk/23.04        | mathlib/fftw/3.3.8-gcc-7.3.1-single    | mathlib/libjpeg/9.1.0-intel-2017   | mathlib/udunits/2.2.26-intel-2017      | mpi/openmpi/openmpi-4.1.5-gcc9.3.0 |
| ompiler/gcc/9.3.0        | mathlib/fftw/3.3.8-intel-2017-double   | mathlib/libpng/1.2.50-gcc-7.3.1    | mathlib/zlib/1.2.11-intel-2017         | R/3.6.3-gcc-7.3.1                  |
| ompiler/intel/2017.5.239 | mathlib/fftw/3.3.8-intel-2017-single   | mathlib/libpng/1.2.50-intel-2017   | mathlib/zlib/1.2.8-gcc-7.3.1           | singularity/3.7.3                  |

### 其中注意jittor的版本为1.3.7.16,以及DTK版本为compiler/dtk/22.04.2

```
[aclazwknd8@c14r2n00 ~]$ module load anaconda3/5.2.0
[aclazwknd8@c14r2n00 ~]$ source activate jt
(jt) [aclazwknd8@c14r2n00 ~]$ conda list
# packages in environment at /work/home/aclazwknd8/.conda/envs/jt:
# Name
                            Version
                                                         Build Channel
libgcc mutex
                            0.1
                                                          main
astunparse
                            1.6.3
                                                         <pip>
backcall
                            0.2.0
                                                         <pip>
ca-certificates
                            2023.01.10
                                                   h06a4308 0
certifi
                            2023.5.7
                                                         <pip>
certifi
                            2022.12.7
                                               py37h06a4308_0
charset-normalizer
                            3.1.0
                                                         <pip>
decorator
                            5.1.1
                                                         <pip>
dill
                            0.3.6
                                                         <pip>
dominate
                            2.8.0
                                                         <pip>
idna
                            3.4
                                                         <pip>
imageio
                            2.31.1
                                                         <pip>
ipdb
                            0.13.13
                                                         <pip>
ipython
                            7.34.0
                                                         <pip>
jedi
                            0.18.2
                                                         <pip>
jieba
                            0.42.1
                                                         <pip>
jittor
                            1.3.7.16
                                                         <pip>
jtorch
                            0.1.3
                                                         <pip>
ld impl linux-64
                            2.38
                                                   h1181459 1
libffi
                            3.3
                                                   he6710b0 2
libgcc-ng
                            9.1.0
                                                   hdf63c60 0
                            9.1.0
libstdcxx-ng
                                                   hdf63c60 0
matplotlib-inline
                            0.1.6
                                                         <pip>
ncurses
                            6.3
                                                   h7f8727e_2
networkx
                            2.6.3
                                                         <pip>
                            1.21.6
numpy
                                                         <pip>
                            1.1.1t
openssl
                                                   h7f8727e 0
                            23.1
packaging
                                                         <pip>
                            0.8.3
parso
                                                         <pip>
                            4.8.0
pexpect
                                                         <pip>
pickleshare
                            0.7.5
                                                         <pip>
(jt) [aclazwknd8@cl4r2n00 ~]$ module list
Currently Loaded Modulefiles:
1) compiler/dtk/22.04.2
                        2) compiler/devtoolset/7.3.1 3) mpi/hpcx/gcc-7.3.1
                                                                      4) anaconda3/5.2.0
(jt) [aclazwknd8@c14r2n00 ~]$
```

8. 上传好数据,并修改对应训练命令的路径,

以及加入环境变量:

1 export DISABLE\_MULTIPROCESSING=1

```
(jt) [aclazwknd88c14r2n00 project]5 cd JGAN-master/
(jt) [aclazwknd88c14r2n00 JGAN-master]$ ls

assets competition data models README.md requirements.txt
(jt) [aclazwknd88c14r2n00 JGAN-master]$ cd models/
(jt) [aclazwknd88c14r2n00 models]5 ls

ase began bicyclegan cluster_gan context_encoder dogan ebgan gan infogan pix2pix relativistic_gan softmax_gan unit wgan_div

acqan bpan cyan cogan cyclegan dragan esrgan gaugan lsgan pixelds sgan stargan wgan wgan_gp

(jt) [aclazwknd88c14r2n00 models]$ cd gaugan/
(jt) [aclazwknd88c14r2n00 gaugan]$ ls

checkpoints data label_to_ing_json models options pix2pix_trainer.py _pycache_ README.md requirements.txt spade_test.py spade_train.py test.py test.sh train.py train.sh util

(jt) [aclazwknd88c14r2n00 gaugan]$ ls

checkpoints data label_to_ing_json models options pix2pix_trainer.py _pycache_ README.md requirements.txt spade_test.py spade_train.py test.py test.sh train.py train.sh util

(jt) [aclazwknd88c14r2n00 gaugan]$ ls

checkpoints data label_to_ing_json models options pix2pix_trainer.py _pycache_ README.md requirements.txt spade_test.py spade_train.py test.py test.sh train.py train.sh util

(jt) [aclazwknd88c14r2n00 gaugan]$ ls

checkpoints data label_to_ing_json models options pix2pix_trainer.py _pycache_ README.md requirements.txt spade_test.py spade_train.py test.py test.sh train.py train.sh util

(jt) [aclazwknd88c14r2n00 gaugan]$ export DISABLE_MULTIFROCESSING=1

(jt) [aclazwknd88c14r2n00 gaugan]$ ls

checkpoints data label_to_ing_json models options pix2pix_trainer.py _pycache_ README.md requirements.txt spade_test.py spade_train.py test.py test.sh train.py train.sh util
```

#### 9. 训练