Getting Started with Python Environment on HAL System

- Open Cognitive Environment (opence/1.3.1, opence/1.2.2, opence/1.1.2, opence/1.0.0)
- IBM Watson Machine Learning Community Edition (wmlce/1.7.0, wmlce/1.6.2)

Open Cognitive Environment (opence/1.3.1, opence/1.2.2, opence/1.1.2, opence/1.0.0)

The project contains everything that is needed to build conda packages for a collection of machine learning and deep learning frameworks.

Environment	opence-v1.3.1	opence-v1.2.2	opence-v1.1.2	opence-v1.0.0
python	3.8.0	3.8.0	3.8.12	3.8.12
cuda	**11.2.2**	**11.0.221**	**10.2.89**	**10.2.89**
cudnn	8.1.1	8.1.1	7.6.5	7.6.5
nccl	2.8.3	2.7.8	2.7.8	2.7.8
openmpi	4.1.1	3.1.3	3.1.3	3.1.3
apex	0.1	N/A	N/A	N/A
hdf5	1.10.4	1.10.6	1.10.4	1.10.4
horovod	**0.21.3**	**0.21.0**	**0.21.0**	**0.19.5**
ipython	7.27.0	7.29.0	7.29.0	7.28.0
matplotlib	3.4.3	3.4.3	3.4.3	3.4.2
mpi4py	3.1.1	N/A	N/A	N/A
numpy	1.21.2	1.19.5	1.19.5	1.19.2
onnx	1.7.0	1.6.0	1.6.0	1.6.0
opencv	3.4.14	4.5.0	3.4.10	3.4.10
pandas	1.3.2	1.3.4	1.3.4	1.2.4
pytorch	**1.8.1**	**1.7.1**	**1.7.1**	**1.6.0**
scikit-learn	0.24.2	1.0.1	1.0.1	1.0.1
scipy	1.7.1	1.7.1	1.4.1	1.4.1
tensorflow	**2.5.1**	**2.4.1**	**2.4.1**	**2.3.1**
tensorboard	2.5.0	2.4.1	2.4.1	2.3.0
transformers	4.4.2	2.1.1	4.12.2	4.12.2

IBM Watson Machine Learning Community Edition (wmlce/1.7.0, wmlce/1.6.2)

WMLCE is an enterprise software distribution that combines popular open-source deep learning frameworks, efficient AI development tools, and accelerated IBM Power Systems servers. It includes the following frameworks:

Environment	wmlce/1.7.0	wmlce/1.6.2
python	3.7.10	3.7.10
cuda	**10.2.89**	**10.1.243**
cudnn	7.6.5	7.6.3
nccl	2.5.6	2.4.8
apex	0.1.0	0.1.0
caffe	**1.0**	**1.0**
dask	**2.9.2**	**2.3.0**
hdf5	1.10.2	1.10.2

horovod	0.19.0	N/A
ipython	7.26.0	7.26.0
matplotlib	3.3.4	3.3.4
numba	0.47.0	0.45.1
numpy	1.17.4	1.16.6
onnx	1.6.0	1.5.0
pandas	1.2.4	1.2.4
pytorch	**1.2.4**	**1.2.0**
scikit-learn	0.24.2	0.22.1
scipy	1.3.1	1.3.1
spectrum-mpi	10.03	10.03
tensorboard	2.1.1	1.15.0
tensorflow	**2.1.3**	**1.15.5**