TorchANI Worknotes

Fadjar Fathurrahman

1 Installation

Prerequisites: PyTorch

Recommendation: install to user directory.

The usual steps are applicable:

```
• python setup.py build
```

• python setup.py install --user

TorchANI will be installed at (for example, the version number may vary):

```
$HOME/.local/lib/python3.8/site-packages/torchani-2.1.2-py3.8.egg/
```

To check the installation, go to directory examples and run the <code>energy_force.py</code> example. TorchANI will download the necessary files (paramaters for the neural network) so the script might run slowly in the first call. The parameters will put under the <code>resources</code> subdirectory of TorchANI.

There is warning when using Torch v-1.6:

The fix seems to be:

```
in_cutoff = torch.nonzero(distances <= cutoff, as_tuple=False)</pre>
```