

```
ssh://lzhpc@211.80.196.245:22/home/lzhpc/anaconda3/envs/tenchaofen3/bin/python3.6 -
u /home/lzhpc/.pycharm_helpers/pydev/pydevconsole.py --mode=server
import sys; print('Python %s on %s' % (sys.version, sys.platform))
sys.path.extend(['/tmp/pycharm_project_507', '/tmp/pycharm_project_507'])
PyDev console: starting.
Python 3.6.2 |Continuum Analytics, Inc.| (default, Jul 20 2017, 13:51:32)
[GCC 4.4.7 20120313 (Red Hat 4.4.7-1)] on linux
runfile('/tmp/pycharm_project_507/eval_refinedet.py', wdir='/tmp/pycharm_project_507')
4
4
0
Finished loading model!
/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd
function with non-static forward method is deprecated and will be removed in 1.3. Please use
new-style autograd function with static forward method. (Example:
https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function)
im_detect: 1/128 2.433s
/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd
function with non-static forward method is deprecated and will be removed in 1.3. Please use
new-style autograd function with static forward method. (Example:
https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function)
im_detect: 2/128 0.024s
/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd
function with non-static forward method is deprecated and will be removed in 1.3. Please use
new-style autograd function with static forward method. (Example:
https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function)
im_detect: 3/128 0.023s
/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd
function with non-static forward method is deprecated and will be removed in 1.3. Please use
new-style autograd function with static forward method. (Example:
https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function)
im_detect: 4/128 0.023s
/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd
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new-style autograd function with static forward method. (Example:
https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function)
im_detect: 5/128 0.023s
/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd
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new-style autograd function with static forward method. (Example:
https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function)
im_detect: 6/128 0.023s
/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd
function with non-static forward method is deprecated and will be removed in 1.3. Please use
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new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 7/128 0.023s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 8/128 0.023s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 9/128 0.023s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 10/128 0.025s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 11/128 0.022s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 12/128 0.024s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 13/128 0.023s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 14/128 0.019s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 15/128 0.020s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd

function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 16/128 0.016s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 17/128 0.019s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 18/128 0.016s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 19/128 0.021s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 20/128 0.021s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 21/128 0.021s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 22/128 0.018s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 23/128 0.018s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 24/128 0.019s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 25/128 0.018s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 26/128 0.018s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 27/128 0.018s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 28/128 0.016s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 29/128 0.018s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 30/128 0.018s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 31/128 0.018s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 32/128 0.018s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 33/128 0.018s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 34/128 0.018s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 35/128 0.019s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 36/128 0.018s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 37/128 0.018s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 38/128 0.016s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 39/128 0.018s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 40/128 0.017s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 41/128 0.018s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

<https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 42/128 0.016s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 43/128 0.017s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 44/128 0.016s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 45/128 0.018s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 46/128 0.018s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 47/128 0.021s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 48/128 0.018s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 49/128 0.018s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 50/128 0.017s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use

new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 51/128 0.018s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 52/128 0.017s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 53/128 0.017s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 54/128 0.018s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 55/128 0.018s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 56/128 0.018s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 57/128 0.021s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 58/128 0.020s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 59/128 0.021s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd

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im_detect: 60/128 0.021s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 61/128 0.018s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 62/128 0.018s

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im_detect: 63/128 0.018s

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im_detect: 64/128 0.018s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 65/128 0.018s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 66/128 0.018s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 67/128 0.018s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 68/128 0.017s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 69/128 0.018s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 70/128 0.018s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 71/128 0.018s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 72/128 0.018s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 73/128 0.017s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 74/128 0.017s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 75/128 0.017s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 76/128 0.017s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 77/128 0.017s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 78/128 0.017s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 79/128 0.017s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 80/128 0.017s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 81/128 0.018s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 82/128 0.018s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 83/128 0.018s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 84/128 0.018s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 85/128 0.017s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

<https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 86/128 0.017s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 87/128 0.017s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 88/128 0.017s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 89/128 0.017s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 90/128 0.020s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 91/128 0.017s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 92/128 0.017s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 93/128 0.017s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 94/128 0.017s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use

new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 95/128 0.017s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 96/128 0.017s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 97/128 0.017s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 98/128 0.017s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 99/128 0.017s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 100/128 0.017s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 101/128 0.024s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 102/128 0.017s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 103/128 0.017s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd

function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 104/128 0.017s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 105/128 0.018s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 106/128 0.017s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 107/128 0.019s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 108/128 0.019s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 109/128 0.017s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 110/128 0.017s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 111/128 0.017s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 112/128 0.017s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 113/128 0.017s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 114/128 0.017s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 115/128 0.017s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 116/128 0.017s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 117/128 0.017s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 118/128 0.017s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 119/128 0.018s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 120/128 0.020s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 121/128 0.017s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 122/128 0.018s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 123/128 0.017s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 124/128 0.018s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 125/128 0.017s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 126/128 0.017s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 127/128 0.017s

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

im_detect: 128/128 0.017s

detecting 128 images needs 4.2500s

Evaluating detections

Writing bn VOC results file

Writing he VOC results file

Writing nm VOC results file

Writing tb VOC results file

Writing tk VOC results file

Writing kn VOC results file

VOC07 metric? Yes
recall: 0.8333333333333334
precision: 0.5405405405405406
0.8333333333333334 0.5405405405405406
AP for bn = 0.7272
recall: 0.8333333333333334
precision: 0.7692307692307693
0.8333333333333334 0.7692307692307693
AP for he = 0.7876
recall: 0.8214285714285714
precision: 0.696969696969697
0.8214285714285714 0.696969696969697
AP for nm = 0.7537
recall: 0.9166666666666666
precision: 0.7333333333333333
0.9166666666666666 0.7333333333333333
AP for tb = 0.8767
recall: 0.9642857142857143
precision: 0.84375
0.9642857142857143 0.84375
AP for tk = 0.9026
recall: 0.95
precision: 0.95
0.95 0.95
AP for kn = 0.9091
Mean AP = 0.8261
Mean Recall=0.8865
Mean Precision=0.7556
F1-score=0.8159

~~~~~

Results:

0.727  
0.788  
0.754  
0.877  
0.903  
0.909  
0.826

~~~~~

/pytorch/torch/csrc/autograd/python_function.cpp:638: UserWarning: Legacy autograd function with non-static forward method is deprecated and will be removed in 1.3. Please use new-style autograd function with static forward method. (Example: <https://pytorch.org/docs/stable/autograd.html#torch.autograd.Function>)

RefineDet_novel_cam(

43.17 M, 99.998% Params, 41.717 GMac, 100.000% MACs,
(vgg): ModuleList(
 20.484 M, 47.448% Params, 31.965 GMac, 76.623% MACs,
 (0): Conv2d(0.002 M, 0.004% Params, 0.184 GMac, 0.440% MACs, 3, 64, kernel_size=(3, 3),
stride=(1, 1), padding=(1, 1))
 (1): ReLU(0.0 M, 0.000% Params, 0.007 GMac, 0.016% MACs, inplace=True)
 (2): Conv2d(0.037 M, 0.086% Params, 3.781 GMac, 9.065% MACs, 64, 64, kernel_size=(3,
3), stride=(1, 1), padding=(1, 1))
 (3): ReLU(0.0 M, 0.000% Params, 0.007 GMac, 0.016% MACs, inplace=True)
 (4): MaxPool2d(0.0 M, 0.000% Params, 0.007 GMac, 0.016% MACs, kernel_size=2, stride=2,
padding=0, dilation=1, ceil_mode=False)
 (5): Conv2d(0.074 M, 0.171% Params, 1.891 GMac, 4.532% MACs, 64, 128, kernel_size=(3,
3), stride=(1, 1), padding=(1, 1))
 (6): ReLU(0.0 M, 0.000% Params, 0.003 GMac, 0.008% MACs, inplace=True)
 (7): Conv2d(0.148 M, 0.342% Params, 3.778 GMac, 9.057% MACs, 128, 128, kernel_size=(3,
3), stride=(1, 1), padding=(1, 1))
 (8): ReLU(0.0 M, 0.000% Params, 0.003 GMac, 0.008% MACs, inplace=True)
 (9): MaxPool2d(0.0 M, 0.000% Params, 0.003 GMac, 0.008% MACs, kernel_size=2, stride=2,
padding=0, dilation=1, ceil_mode=False)
 (10): Conv2d(0.295 M, 0.684% Params, 1.889 GMac, 4.528% MACs, 128, 256,
kernel_size=(3, 3), stride=(1, 1), padding=(1, 1))
 (11): ReLU(0.0 M, 0.000% Params, 0.002 GMac, 0.004% MACs, inplace=True)
 (12): Conv2d(0.59 M, 1.367% Params, 3.777 GMac, 9.053% MACs, 256, 256, kernel_size=(3,
3), stride=(1, 1), padding=(1, 1))
 (13): ReLU(0.0 M, 0.000% Params, 0.002 GMac, 0.004% MACs, inplace=True)
 (14): Conv2d(0.59 M, 1.367% Params, 3.777 GMac, 9.053% MACs, 256, 256, kernel_size=(3,
3), stride=(1, 1), padding=(1, 1))
 (15): ReLU(0.0 M, 0.000% Params, 0.002 GMac, 0.004% MACs, inplace=True)
 (16): MaxPool2d(0.0 M, 0.000% Params, 0.002 GMac, 0.004% MACs, kernel_size=2,
stride=2, padding=0, dilation=1, ceil_mode=True)
 (17): Conv2d(1.18 M, 2.734% Params, 1.888 GMac, 4.526% MACs, 256, 512, kernel_size=(3,
3), stride=(1, 1), padding=(1, 1))
 (18): ReLU(0.0 M, 0.000% Params, 0.001 GMac, 0.002% MACs, inplace=True)
 (19): Conv2d(2.36 M, 5.466% Params, 3.776 GMac, 9.051% MACs, 512, 512, kernel_size=(3,
3), stride=(1, 1), padding=(1, 1))
 (20): ReLU(0.0 M, 0.000% Params, 0.001 GMac, 0.002% MACs, inplace=True)
 (21): Conv2d(2.36 M, 5.466% Params, 3.776 GMac, 9.051% MACs, 512, 512, kernel_size=(3,
3), stride=(1, 1), padding=(1, 1))
 (22): ReLU(0.0 M, 0.000% Params, 0.001 GMac, 0.002% MACs, inplace=True)
 (23): MaxPool2d(0.0 M, 0.000% Params, 0.001 GMac, 0.002% MACs, kernel_size=2,
stride=2, padding=0, dilation=1, ceil_mode=False)
 (24): Conv2d(2.36 M, 5.466% Params, 0.944 GMac, 2.263% MACs, 512, 512, kernel_size=(3,
3), stride=(1, 1), padding=(1, 1))
 (25): ReLU(0.0 M, 0.000% Params, 0.0 GMac, 0.000% MACs, inplace=True)

(26): Conv2d(2.36 M, 5.466% Params, 0.944 GMac, 2.263% MACs, 512, 512, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1))
 (27): ReLU(0.0 M, 0.000% Params, 0.0 GMac, 0.000% MACs, inplace=True)
 (28): Conv2d(2.36 M, 5.466% Params, 0.944 GMac, 2.263% MACs, 512, 512, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1))
 (29): ReLU(0.0 M, 0.000% Params, 0.0 GMac, 0.000% MACs, inplace=True)
 (30): MaxPool2d(0.0 M, 0.000% Params, 0.0 GMac, 0.000% MACs, kernel_size=2, stride=2, padding=0, dilation=1, ceil_mode=False)
 (31): Conv2d(4.72 M, 10.932% Params, 0.472 GMac, 1.131% MACs, 512, 1024, kernel_size=(3, 3), stride=(1, 1), padding=(3, 3), dilation=(3, 3))
 (32): ReLU(0.0 M, 0.000% Params, 0.0 GMac, 0.000% MACs, inplace=True)
 (33): Conv2d(1.05 M, 2.431% Params, 0.105 GMac, 0.252% MACs, 1024, 1024, kernel_size=(1, 1), stride=(1, 1))
 (34): ReLU(0.0 M, 0.000% Params, 0.0 GMac, 0.000% MACs, inplace=True)
)
 (conv4_3_L2Norm): L2Norm(0.0 M, 0.000% Params, 0.0 GMac, 0.000% MACs,)
 (conv5_3_L2Norm): L2Norm(0.0 M, 0.000% Params, 0.0 GMac, 0.000% MACs,)
 (extras): ModuleList(
 1.443 M, 3.342% Params, 0.056 GMac, 0.134% MACs,
 (0): Conv2d(0.262 M, 0.608% Params, 0.026 GMac, 0.063% MACs, 1024, 256, kernel_size=(1, 1), stride=(1, 1))
 (1): Conv2d(1.18 M, 2.734% Params, 0.03 GMac, 0.071% MACs, 256, 512, kernel_size=(3, 3), stride=(2, 2), padding=(1, 1))
)
 (arm_loc): ModuleList(
 0.277 M, 0.641% Params, 0.123 GMac, 0.295% MACs,
 (0): Conv2d(0.055 M, 0.128% Params, 0.088 GMac, 0.212% MACs, 512, 12, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1))
 (1): Conv2d(0.055 M, 0.128% Params, 0.022 GMac, 0.053% MACs, 512, 12, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1))
 (2): Conv2d(0.111 M, 0.256% Params, 0.011 GMac, 0.027% MACs, 1024, 12, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1))
 (3): Conv2d(0.055 M, 0.128% Params, 0.001 GMac, 0.003% MACs, 512, 12, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1))
)
 (arm_conf): ModuleList(
 0.138 M, 0.320% Params, 0.062 GMac, 0.147% MACs,
 (0): Conv2d(0.028 M, 0.064% Params, 0.044 GMac, 0.106% MACs, 512, 6, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1))
 (1): Conv2d(0.028 M, 0.064% Params, 0.011 GMac, 0.027% MACs, 512, 6, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1))
 (2): Conv2d(0.055 M, 0.128% Params, 0.006 GMac, 0.013% MACs, 1024, 6, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1))
 (3): Conv2d(0.028 M, 0.064% Params, 0.001 GMac, 0.002% MACs, 512, 6, kernel_size=(3,

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3), stride=(1, 1), padding=(1, 1))
)
(odm_loc): ModuleList(
  0.111 M, 0.256% Params, 0.059 GMac, 0.141% MACs,
  (0): Conv2d(0.028 M, 0.064% Params, 0.044 GMac, 0.106% MACs, 256, 12, kernel_size=(3,
3), stride=(1, 1), padding=(1, 1))
  (1): Conv2d(0.028 M, 0.064% Params, 0.011 GMac, 0.027% MACs, 256, 12, kernel_size=(3,
3), stride=(1, 1), padding=(1, 1))
  (2): Conv2d(0.028 M, 0.064% Params, 0.003 GMac, 0.007% MACs, 256, 12, kernel_size=(3,
3), stride=(1, 1), padding=(1, 1))
  (3): Conv2d(0.028 M, 0.064% Params, 0.001 GMac, 0.002% MACs, 256, 12, kernel_size=(3,
3), stride=(1, 1), padding=(1, 1))
)
(odm_conf): ModuleList(
  0.194 M, 0.448% Params, 0.103 GMac, 0.247% MACs,
  (0): Conv2d(0.048 M, 0.112% Params, 0.077 GMac, 0.186% MACs, 256, 21, kernel_size=(3,
3), stride=(1, 1), padding=(1, 1))
  (1): Conv2d(0.048 M, 0.112% Params, 0.019 GMac, 0.046% MACs, 256, 21, kernel_size=(3,
3), stride=(1, 1), padding=(1, 1))
  (2): Conv2d(0.048 M, 0.112% Params, 0.005 GMac, 0.012% MACs, 256, 21, kernel_size=(3,
3), stride=(1, 1), padding=(1, 1))
  (3): Conv2d(0.048 M, 0.112% Params, 0.001 GMac, 0.003% MACs, 256, 21, kernel_size=(3,
3), stride=(1, 1), padding=(1, 1))
)
(tcb0): ModuleList(
  8.26 M, 19.132% Params, 3.88 GMac, 9.300% MACs,
  (0): Conv2d(1.18 M, 2.733% Params, 1.888 GMac, 4.525% MACs, 512, 256, kernel_size=(3,
3), stride=(1, 1), padding=(1, 1))
  (1): ReLU(0.0 M, 0.000% Params, 0.0 GMac, 0.001% MACs, inplace=True)
  (2): Conv2d(0.59 M, 1.367% Params, 0.944 GMac, 2.263% MACs, 256, 256, kernel_size=(3,
3), stride=(1, 1), padding=(1, 1))
  (3): Conv2d(1.18 M, 2.733% Params, 0.472 GMac, 1.131% MACs, 512, 256, kernel_size=(3,
3), stride=(1, 1), padding=(1, 1))
  (4): ReLU(0.0 M, 0.000% Params, 0.0 GMac, 0.000% MACs, inplace=True)
  (5): Conv2d(0.59 M, 1.367% Params, 0.236 GMac, 0.566% MACs, 256, 256, kernel_size=(3,
3), stride=(1, 1), padding=(1, 1))
  (6): Conv2d(2.36 M, 5.466% Params, 0.236 GMac, 0.566% MACs, 1024, 256, kernel_size=(3,
3), stride=(1, 1), padding=(1, 1))
  (7): ReLU(0.0 M, 0.000% Params, 0.0 GMac, 0.000% MACs, inplace=True)
  (8): Conv2d(0.59 M, 1.367% Params, 0.059 GMac, 0.141% MACs, 256, 256, kernel_size=(3,
3), stride=(1, 1), padding=(1, 1))
  (9): Conv2d(1.18 M, 2.733% Params, 0.029 GMac, 0.071% MACs, 512, 256, kernel_size=(3,
3), stride=(1, 1), padding=(1, 1))
  (10): ReLU(0.0 M, 0.000% Params, 0.0 GMac, 0.000% MACs, inplace=True)

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(11): Conv2d(0.59 M, 1.367% Params, 0.015 GMac, 0.035% MACs, 256, 256, kernel_size=(3,
3), stride=(1, 1), padding=(1, 1))
)
(tcb1): ModuleList(
  0.787 M, 1.823% Params, 0.138 GMac, 0.331% MACs,
  (0): ConvTranspose2d(0.262 M, 0.608% Params, 0.105 GMac, 0.252% MACs, 256, 256,
kernel_size=(2, 2), stride=(2, 2))
  (1): ConvTranspose2d(0.262 M, 0.608% Params, 0.026 GMac, 0.063% MACs, 256, 256,
kernel_size=(2, 2), stride=(2, 2))
  (2): ConvTranspose2d(0.262 M, 0.608% Params, 0.007 GMac, 0.016% MACs, 256, 256,
kernel_size=(2, 2), stride=(2, 2))
)
(tcb2): ModuleList(
  2.36 M, 5.467% Params, 1.255 GMac, 3.008% MACs,
  (0): ReLU(0.0 M, 0.000% Params, 0.0 GMac, 0.001% MACs, inplace=True)
  (1): Conv2d(0.59 M, 1.367% Params, 0.944 GMac, 2.263% MACs, 256, 256, kernel_size=(3,
3), stride=(1, 1), padding=(1, 1))
  (2): ReLU(0.0 M, 0.000% Params, 0.0 GMac, 0.001% MACs, inplace=True)
  (3): ReLU(0.0 M, 0.000% Params, 0.0 GMac, 0.000% MACs, inplace=True)
  (4): Conv2d(0.59 M, 1.367% Params, 0.236 GMac, 0.566% MACs, 256, 256, kernel_size=(3,
3), stride=(1, 1), padding=(1, 1))
  (5): ReLU(0.0 M, 0.000% Params, 0.0 GMac, 0.000% MACs, inplace=True)
  (6): ReLU(0.0 M, 0.000% Params, 0.0 GMac, 0.000% MACs, inplace=True)
  (7): Conv2d(0.59 M, 1.367% Params, 0.059 GMac, 0.141% MACs, 256, 256, kernel_size=(3,
3), stride=(1, 1), padding=(1, 1))
  (8): ReLU(0.0 M, 0.000% Params, 0.0 GMac, 0.000% MACs, inplace=True)
  (9): ReLU(0.0 M, 0.000% Params, 0.0 GMac, 0.000% MACs, inplace=True)
  (10): Conv2d(0.59 M, 1.367% Params, 0.015 GMac, 0.035% MACs, 256, 256, kernel_size=(3,
3), stride=(1, 1), padding=(1, 1))
  (11): ReLU(0.0 M, 0.000% Params, 0.0 GMac, 0.000% MACs, inplace=True)
)
(tcb_0): ModuleList(
  4.721 M, 10.935% Params, 2.508 GMac, 6.013% MACs,
  (0): Conv2d(0.59 M, 1.367% Params, 0.944 GMac, 2.263% MACs, 256, 256, kernel_size=(3,
3), stride=(1, 1), padding=(1, 1))
  (1): ReLU(0.0 M, 0.000% Params, 0.0 GMac, 0.001% MACs, inplace=True)
  (2): Conv2d(0.59 M, 1.367% Params, 0.944 GMac, 2.263% MACs, 256, 256, kernel_size=(3,
3), stride=(1, 1), padding=(1, 1))
  (3): Conv2d(0.59 M, 1.367% Params, 0.236 GMac, 0.566% MACs, 256, 256, kernel_size=(3,
3), stride=(1, 1), padding=(1, 1))
  (4): ReLU(0.0 M, 0.000% Params, 0.0 GMac, 0.000% MACs, inplace=True)
  (5): Conv2d(0.59 M, 1.367% Params, 0.236 GMac, 0.566% MACs, 256, 256, kernel_size=(3,
3), stride=(1, 1), padding=(1, 1))
  (6): Conv2d(0.59 M, 1.367% Params, 0.059 GMac, 0.141% MACs, 256, 256, kernel_size=(3,

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3), stride=(1, 1), padding=(1, 1))
    (7): ReLU(0.0 M, 0.000% Params, 0.0 GMac, 0.000% MACs, inplace=True)
    (8): Conv2d(0.59 M, 1.367% Params, 0.059 GMac, 0.141% MACs, 256, 256, kernel_size=(3,
3), stride=(1, 1), padding=(1, 1))
    (9): Conv2d(0.59 M, 1.367% Params, 0.015 GMac, 0.035% MACs, 256, 256, kernel_size=(3,
3), stride=(1, 1), padding=(1, 1))
    (10): ReLU(0.0 M, 0.000% Params, 0.0 GMac, 0.000% MACs, inplace=True)
    (11): Conv2d(0.59 M, 1.367% Params, 0.015 GMac, 0.035% MACs, 256, 256, kernel_size=(3,
3), stride=(1, 1), padding=(1, 1))
)
(tcb_1): ModuleList(
  1.77 M, 4.101% Params, 0.31 GMac, 0.743% MACs,
  (0): Conv2d(0.59 M, 1.367% Params, 0.236 GMac, 0.566% MACs, 256, 256, kernel_size=(3,
3), stride=(2, 2), padding=(1, 1))
  (1): Conv2d(0.59 M, 1.367% Params, 0.059 GMac, 0.141% MACs, 256, 256, kernel_size=(3,
3), stride=(2, 2), padding=(1, 1))
  (2): Conv2d(0.59 M, 1.367% Params, 0.015 GMac, 0.035% MACs, 256, 256, kernel_size=(3,
3), stride=(2, 2), padding=(1, 1))
)
(tcb_2): ModuleList(
  2.36 M, 5.467% Params, 1.255 GMac, 3.008% MACs,
  (0): ReLU(0.0 M, 0.000% Params, 0.0 GMac, 0.001% MACs, inplace=True)
  (1): Conv2d(0.59 M, 1.367% Params, 0.944 GMac, 2.263% MACs, 256, 256, kernel_size=(3,
3), stride=(1, 1), padding=(1, 1))
  (2): ReLU(0.0 M, 0.000% Params, 0.0 GMac, 0.001% MACs, inplace=True)
  (3): ReLU(0.0 M, 0.000% Params, 0.0 GMac, 0.000% MACs, inplace=True)
  (4): Conv2d(0.59 M, 1.367% Params, 0.236 GMac, 0.566% MACs, 256, 256, kernel_size=(3,
3), stride=(1, 1), padding=(1, 1))
  (5): ReLU(0.0 M, 0.000% Params, 0.0 GMac, 0.000% MACs, inplace=True)
  (6): ReLU(0.0 M, 0.000% Params, 0.0 GMac, 0.000% MACs, inplace=True)
  (7): Conv2d(0.59 M, 1.367% Params, 0.059 GMac, 0.141% MACs, 256, 256, kernel_size=(3,
3), stride=(1, 1), padding=(1, 1))
  (8): ReLU(0.0 M, 0.000% Params, 0.0 GMac, 0.000% MACs, inplace=True)
  (9): ReLU(0.0 M, 0.000% Params, 0.0 GMac, 0.000% MACs, inplace=True)
  (10): Conv2d(0.59 M, 1.367% Params, 0.015 GMac, 0.035% MACs, 256, 256, kernel_size=(3,
3), stride=(1, 1), padding=(1, 1))
  (11): ReLU(0.0 M, 0.000% Params, 0.0 GMac, 0.000% MACs, inplace=True)
)
(list_cam): ModuleList(
  0.266 M, 0.616% Params, 0.004 GMac, 0.009% MACs,
  (0): CAM(
    0.033 M, 0.077% Params, 0.002 GMac, 0.004% MACs,
    (avg_pool): AdaptiveAvgPool2d(0.0 M, 0.000% Params, 0.001 GMac, 0.002% MACs,
output_size=1)

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(max_pool): AdaptiveMaxPool2d(0.0 M, 0.000% Params, 0.001 GMac, 0.002% MACs,
output_size=1)
(fc1): Conv2d(0.016 M, 0.038% Params, 0.0 GMac, 0.000% MACs, 512, 32, kernel_size=(1,
1), stride=(1, 1))
(relu): ReLU(0.0 M, 0.000% Params, 0.0 GMac, 0.000% MACs, inplace=True)
(fc2): Conv2d(0.017 M, 0.039% Params, 0.0 GMac, 0.000% MACs, 32, 512, kernel_size=(1,
1), stride=(1, 1))
(sigmoid_channel): Sigmoid(0.0 M, 0.000% Params, 0.0 GMac, 0.000% MACs, )
(conv_after_concat): Conv2d(0.0 M, 0.000% Params, 0.0 GMac, 0.000% MACs, 2, 1,
kernel_size=(3, 3), stride=(1, 1), padding=(1, 1))
(sigmoid_spatial): Sigmoid(0.0 M, 0.000% Params, 0.0 GMac, 0.000% MACs, )
)
(1): CAM(
0.033 M, 0.077% Params, 0.0 GMac, 0.001% MACs,
(avg_pool): AdaptiveAvgPool2d(0.0 M, 0.000% Params, 0.0 GMac, 0.000% MACs,
output_size=1)
(max_pool): AdaptiveMaxPool2d(0.0 M, 0.000% Params, 0.0 GMac, 0.000% MACs,
output_size=1)
(fc1): Conv2d(0.016 M, 0.038% Params, 0.0 GMac, 0.000% MACs, 512, 32, kernel_size=(1,
1), stride=(1, 1))
(relu): ReLU(0.0 M, 0.000% Params, 0.0 GMac, 0.000% MACs, inplace=True)
(fc2): Conv2d(0.017 M, 0.039% Params, 0.0 GMac, 0.000% MACs, 32, 512, kernel_size=(1,
1), stride=(1, 1))
(sigmoid_channel): Sigmoid(0.0 M, 0.000% Params, 0.0 GMac, 0.000% MACs, )
(conv_after_concat): Conv2d(0.0 M, 0.000% Params, 0.0 GMac, 0.000% MACs, 2, 1,
kernel_size=(3, 3), stride=(1, 1), padding=(1, 1))
(sigmoid_spatial): Sigmoid(0.0 M, 0.000% Params, 0.0 GMac, 0.000% MACs, )
)
(2): CAM(
0.132 M, 0.306% Params, 0.0 GMac, 0.001% MACs,
(avg_pool): AdaptiveAvgPool2d(0.0 M, 0.000% Params, 0.0 GMac, 0.000% MACs,
output_size=1)
(max_pool): AdaptiveMaxPool2d(0.0 M, 0.000% Params, 0.0 GMac, 0.000% MACs,
output_size=1)
(fc1): Conv2d(0.066 M, 0.152% Params, 0.0 GMac, 0.000% MACs, 1024, 64,
kernel_size=(1, 1), stride=(1, 1))
(relu): ReLU(0.0 M, 0.000% Params, 0.0 GMac, 0.000% MACs, inplace=True)
(fc2): Conv2d(0.067 M, 0.154% Params, 0.0 GMac, 0.000% MACs, 64, 1024,
kernel_size=(1, 1), stride=(1, 1))
(sigmoid_channel): Sigmoid(0.0 M, 0.000% Params, 0.0 GMac, 0.000% MACs, )
(conv_after_concat): Conv2d(0.0 M, 0.000% Params, 0.0 GMac, 0.000% MACs, 2, 1,
kernel_size=(3, 3), stride=(1, 1), padding=(1, 1))
(sigmoid_spatial): Sigmoid(0.0 M, 0.000% Params, 0.0 GMac, 0.000% MACs, )
)

```

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(3): CAM(
  0.033 M, 0.077% Params, 0.0 GMac, 0.000% MACs,
  (avg_pool): AdaptiveAvgPool2d(0.0 M, 0.000% Params, 0.0 GMac, 0.000% MACs,
output_size=1)
  (max_pool): AdaptiveMaxPool2d(0.0 M, 0.000% Params, 0.0 GMac, 0.000% MACs,
output_size=1)
  (fc1): Conv2d(0.016 M, 0.038% Params, 0.0 GMac, 0.000% MACs, 512, 32, kernel_size=(1,
1), stride=(1, 1))
  (relu): ReLU(0.0 M, 0.000% Params, 0.0 GMac, 0.000% MACs, inplace=True)
  (fc2): Conv2d(0.017 M, 0.039% Params, 0.0 GMac, 0.000% MACs, 32, 512, kernel_size=(1,
1), stride=(1, 1))
  (sigmoid_channel): Sigmoid(0.0 M, 0.000% Params, 0.0 GMac, 0.000% MACs, )
  (conv_after_concat): Conv2d(0.0 M, 0.000% Params, 0.0 GMac, 0.000% MACs, 2, 1,
kernel_size=(3, 3), stride=(1, 1), padding=(1, 1))
  (sigmoid_spatial): Sigmoid(0.0 M, 0.000% Params, 0.0 GMac, 0.000% MACs, )
)
(4): CAM(
  0.008 M, 0.020% Params, 0.0 GMac, 0.000% MACs,
  (avg_pool): AdaptiveAvgPool2d(0.0 M, 0.000% Params, 0.0 GMac, 0.000% MACs,
output_size=1)
  (max_pool): AdaptiveMaxPool2d(0.0 M, 0.000% Params, 0.0 GMac, 0.000% MACs,
output_size=1)
  (fc1): Conv2d(0.004 M, 0.010% Params, 0.0 GMac, 0.000% MACs, 256, 16, kernel_size=(1,
1), stride=(1, 1))
  (relu): ReLU(0.0 M, 0.000% Params, 0.0 GMac, 0.000% MACs, inplace=True)
  (fc2): Conv2d(0.004 M, 0.010% Params, 0.0 GMac, 0.000% MACs, 16, 256, kernel_size=(1,
1), stride=(1, 1))
  (sigmoid_channel): Sigmoid(0.0 M, 0.000% Params, 0.0 GMac, 0.000% MACs, )
  (conv_after_concat): Conv2d(0.0 M, 0.000% Params, 0.0 GMac, 0.000% MACs, 2, 1,
kernel_size=(3, 3), stride=(1, 1), padding=(1, 1))
  (sigmoid_spatial): Sigmoid(0.0 M, 0.000% Params, 0.0 GMac, 0.000% MACs, )
)
(5): CAM(
  0.008 M, 0.020% Params, 0.0 GMac, 0.000% MACs,
  (avg_pool): AdaptiveAvgPool2d(0.0 M, 0.000% Params, 0.0 GMac, 0.000% MACs,
output_size=1)
  (max_pool): AdaptiveMaxPool2d(0.0 M, 0.000% Params, 0.0 GMac, 0.000% MACs,
output_size=1)
  (fc1): Conv2d(0.004 M, 0.010% Params, 0.0 GMac, 0.000% MACs, 256, 16, kernel_size=(1,
1), stride=(1, 1))
  (relu): ReLU(0.0 M, 0.000% Params, 0.0 GMac, 0.000% MACs, inplace=True)
  (fc2): Conv2d(0.004 M, 0.010% Params, 0.0 GMac, 0.000% MACs, 16, 256, kernel_size=(1,
1), stride=(1, 1))
  (sigmoid_channel): Sigmoid(0.0 M, 0.000% Params, 0.0 GMac, 0.000% MACs, )

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        (conv_after_concat): Conv2d(0.0 M, 0.000% Params, 0.0 GMac, 0.000% MACs, 2, 1,
kernel_size=(3, 3), stride=(1, 1), padding=(1, 1))
        (sigmoid_spatial): Sigmoid(0.0 M, 0.000% Params, 0.0 GMac, 0.000% MACs, )
    )
    (6): CAM(
        0.008 M, 0.020% Params, 0.0 GMac, 0.001% MACs,
        (avg_pool): AdaptiveAvgPool2d(0.0 M, 0.000% Params, 0.0 GMac, 0.000% MACs,
output_size=1)
        (max_pool): AdaptiveMaxPool2d(0.0 M, 0.000% Params, 0.0 GMac, 0.000% MACs,
output_size=1)
        (fc1): Conv2d(0.004 M, 0.010% Params, 0.0 GMac, 0.000% MACs, 256, 16, kernel_size=(1,
1), stride=(1, 1))
        (relu): ReLU(0.0 M, 0.000% Params, 0.0 GMac, 0.000% MACs, inplace=True)
        (fc2): Conv2d(0.004 M, 0.010% Params, 0.0 GMac, 0.000% MACs, 16, 256, kernel_size=(1,
1), stride=(1, 1))
        (sigmoid_channel): Sigmoid(0.0 M, 0.000% Params, 0.0 GMac, 0.000% MACs, )
        (conv_after_concat): Conv2d(0.0 M, 0.000% Params, 0.0 GMac, 0.000% MACs, 2, 1,
kernel_size=(3, 3), stride=(1, 1), padding=(1, 1))
        (sigmoid_spatial): Sigmoid(0.0 M, 0.000% Params, 0.0 GMac, 0.000% MACs, )
    )
    (7): CAM(
        0.008 M, 0.020% Params, 0.001 GMac, 0.002% MACs,
        (avg_pool): AdaptiveAvgPool2d(0.0 M, 0.000% Params, 0.0 GMac, 0.001% MACs,
output_size=1)
        (max_pool): AdaptiveMaxPool2d(0.0 M, 0.000% Params, 0.0 GMac, 0.001% MACs,
output_size=1)
        (fc1): Conv2d(0.004 M, 0.010% Params, 0.0 GMac, 0.000% MACs, 256, 16, kernel_size=(1,
1), stride=(1, 1))
        (relu): ReLU(0.0 M, 0.000% Params, 0.0 GMac, 0.000% MACs, inplace=True)
        (fc2): Conv2d(0.004 M, 0.010% Params, 0.0 GMac, 0.000% MACs, 16, 256, kernel_size=(1,
1), stride=(1, 1))
        (sigmoid_channel): Sigmoid(0.0 M, 0.000% Params, 0.0 GMac, 0.000% MACs, )
        (conv_after_concat): Conv2d(0.0 M, 0.000% Params, 0.0 GMac, 0.000% MACs, 2, 1,
kernel_size=(3, 3), stride=(1, 1), padding=(1, 1))
        (sigmoid_spatial): Sigmoid(0.0 M, 0.000% Params, 0.0 GMac, 0.000% MACs, )
    )
    )
    (softmax): Softmax(0.0 M, 0.000% Params, 0.0 GMac, 0.000% MACs, dim=-1)
)
41.72 GMac
43.17 M
43170948

```

Results computed with the ****unofficial**** Python eval code.

Results should be very close to the official MATLAB eval code.
