OAID / **CaffeOnACL**

Using ARM Compute Library (NEON+GPU) to speed up caffe; Providing utilities to debug, profile and tune application performance

#arm #arm-compute-library #caffe #arm-neon #arm-gpu #machine-learning #artificial-intelligence #dnn #cnn

3,934 commits | **2** branches | **0** releases | **238** contributors

Branch: **master** | New pull request | Find file | Clone or download

honggui add support acl batch normal,direct conv, local connect, concat layers — Latest commit `25e0cec` 25 days ago

.github	Add Github issue template to curb misuse.	11 months ago
acl_openailab	update perfomermance summary pic	2 months ago
cmake	1. Porting Caffe onto ARM Compute Library.	4 months ago
data	add support acl batch normal,direct conv, local connect, concat layers	25 days ago
docker	Document switch to explicit flags for docker: cpu / gpu.	7 months ago
docs	add support acl batch normal,direct conv, local connect, concat layers	25 days ago
examples	add support acl batch normal,direct conv, local connect, concat layers	25 days ago
include/caffe	add support acl batch normal,direct conv, local connect, concat layers	25 days ago
matlab	Merge pull request #4737 from rokm/matcaffe-individual-destruct	7 months ago
models	add support acl batch normal,direct conv, local connect, concat layers	25 days ago
python	add support acl batch normal,direct conv, local connect, concat layers	25 days ago
scripts	add support acl batch normal,direct conv, local connect, concat layers	25 days ago
src	add support acl batch normal,direct conv, local connect, concat layers	25 days ago
tools	add support acl batch normal,direct conv, local connect, concat layers	25 days ago
unit_tests	add support acl batch normal,direct conv, local connect, concat layers	25 days ago
.Doxyfile	update doxygen config to stop warnings	3 years ago
.gitignore	ignore generated includes for docs	8 months ago
.travis.yml	Stop setting cache timeout in TravisCI	a year ago
CMakeLists.txt	Merge pull request #5296 from shelhamer/rc5	7 months ago
CONTRIBUTING.md	[docs] add CONTRIBUTING.md which will appear on GitHub new Issue/PR p…	2 years ago
CONTRIBUTORS.md	clarify the license and copyright terms of the project	3 years ago
INSTALL.md	installation questions -> caffe-users	2 years ago
LICENSE	copyright spans 2014-2017	8 months ago

Makefile	1. Porting Caffe onto ARM Compute Library.	4 months ago
Makefile.config.acl	1. Porting Caffe onto ARM Compute Library.	4 months ago
Makefile.config.example	Add Pascal CUDA architectures to Makefile.config.example	7 months ago
README.md	Update userguide link	2 months ago
caffe.cloc	[fix] stop cloc complaint about cu type	3 years ago

README.md

CaffeOnACL

CaffeOnACL is a project to use ARM Compute Library (NEON+GPU) to speed up caffe and provide utilities to debug, profile and tune application performance.

Check out the documents for the details like

- release notes
- user guide

Caffe

Caffe is a deep learning framework made with expression, speed, and modularity in mind. It is developed by the Berkeley Vision and Learning Center (BVLC) and community contributors.

Check out the project site for all the details like

- DIY Deep Learning for Vision with Caffe
- Tutorial Documentation
- BVLC reference models and the community model zoo
- Installation instructions

and step-by-step examples.

Please join the caffe-users group or gitter chat to ask questions and talk about methods and models. Framework development discussions and thorough bug reports are collected on Issues.

Happy brewing!

License and Citation

Caffe is released under the BSD 2-Clause license. The BVLC reference models are released for unrestricted use.

Please cite Caffe in your publications if it helps your research:

```
@article{jia2014caffe,
  Author = {Jia, Yangqing and Shelhamer, Evan and Donahue, Jeff and Karayev, Sergey and Long, Jonathan
and Girshick, Ross and Guadarrama, Sergio and Darrell, Trevor},
  Journal = {arXiv preprint arXiv:1408.5093},
  Title = {Caffe: Convolutional Architecture for Fast Feature Embedding},
```

```
  Year = {2014}
}
```