The information how to get the baseline network (three steps):

The step two is just a continuation of step one, because the job was unexpectedly interrupted.
The first two steps use higher learning rate for last layer, and the third step use same learning rate for all layers.

1. finetune: bvlc_googlenet.caffemodel
parameters of training:
base_lr: 0.001, gamma: 0.8 ,momentum: 0.9, weight_decay: 0.0002, stepsize: 10000
learning rate of last layer:
(weights) lr_mult: 10, decay_mult: 10
(bias)       lr_mult: 20, decay_mult: 0
learning rate of other layers:
(weights) lr_mult: 1, decay_mult: 1
(bias)       lr_mult: 2, decay_mult: 0
log file: /work/cv2/haiwang/logs/google_cifar100/
train_googlenet_with_model_from_new_sp10000_lr001_gm8_dp05_higher_last_layer.e2414437
output:
/work/cv2/haiwang/model/
googlenet_cifar100_new_sp10000_lr001_gm8_dp05_higher_last_layer_iter_18750.caffemodel
(Iteration 18750, loss3/top-1 = 0.7323)

2. finetune: result from above
parameters of training:
base_lr: 0.00064, gamma: 0.8 ,momentum: 0.9, weight_decay: 0.0002, stepsize: 10000
learning rate of last layer:
(weights) lr_mult: 10, decay_mult: 10
(bias)       lr_mult: 20, decay_mult: 0
learning rate of other layers:
(weights) lr_mult: 1, decay_mult: 1
(bias)       lr_mult: 2, decay_mult: 0
log file: /work/cv2/haiwang/logs/google_cifar100/
train_googlenet_with_model_from_new_sp10000_lr001_gm8_dp05_higher_continue_last_layer.e2
390816
output:
/work/cv2/haiwang/model/
googlenet_cifar100_new_sp10000_lr001_gm8_dp05_higher_continue_last_layer_iter_40000.caffe
model   (Iteration 40000, loss3/top-1 = 0.7668)

3. finetune: result from above
parameters of training:
base_lr: 0.000262144, gamma: 0.8 ,momentum: 0.9, weight_decay: 0.0002, stepsize: 10000
learning rate of last layer:
(weights) lr_mult: 1, decay_mult: 1
(bias)       lr_mult: 2, decay_mult: 0
learning rate of other layers:
(weights) lr_mult: 1, decay_mult: 1
(bias)       lr_mult: 2, decay_mult: 0
log file: /work/cv2/haiwang/logs/google_cifar100/
train_googlenet_with_model_from_new_sp10000_lr001_gm8_dp05_higher_stop_last_layer_3.e24
01905
output:
/work/cv2/haiwang/model/
googlenet_cifar100_new_sp10000_lr001_gm8_dp05_higher_stop_last_layer_3_iter_81250.caffem
odel   (Iteration 81250, loss3/top-1 = 0.7932)

And then, I redo step three to get other 10 baseline models.