A Appendix

(a) Choice blocks with stride=1

(b) Choice blocks with stride=2

Fig. 1. Choice blocks. From left to right: Choice_3, Choice_5, Choice_7, Choice_x.
Fig. 2. Structures of searched architectures. (a) Result of building block search. (b) Result of channel search on all_choice_3 structure. (c) Result of channel search on best building block search structure.
Fig. 3. Structures of searched architectures under FLOPs constraints by using ProxylessNAS search space.
Fig. 4. Structures of searched architectures under GPU latency constraints by using *ProxylessNAS* search space.
Fig. 5. Searched architectures of joint searching channel size and bit width under BitOPs constraints. (a) - (c) are searched based on Resnet18. (d) - (f) are searched based on Resnet34.