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Distributed Denial of Service (DDoS) attacks are threats not only for the direct targets but also for the core of the network. They are also hard to detect in advance, hence methods to deal with them need to be proactive. By building on earlier work and improving on distribution of control aspects, we propose a Cluster Based framework, which is called CluB, to mitigate DDoS attacks; the method balances the effectiveness-overhead trade-off by addressing the issue of granularity of control in the network. CluB, can collaborate with different routing policies in the network, including contemporary datagram options. We estimate the effectiveness of the framework and also study a set of factors for tuning the granularity of control.