

METHOD AND APPARATUS FOR ESTABLISHING TRUSTED COMPUTING CLUSTER

ABSTRACT

The implementations provide a method and an apparatus for establishing a
5 trusted cluster. The method is used to form a trusted computing cluster by using N
trusted computing units, the method including: grouping the N trusted computing
units into a plurality of groups, each group of the plurality of groups including a
number of trusted computing units not greater than $K+1$, K being a maximum number
10 of trusted computing units with which a trusted computing unit of the N trusted
computing unit simultaneously performs trust authentication; identifying a first trusted
computing unit in each group, and causing first trusted computing units in the
plurality of groups to each respectively perform inter-unit trust authentication with
other trusted computing units in a same group in parallel; performing inter-group trust
15 authentication between/among the plurality of groups in parallel to obtain the N
trusted computing units on which trust authentication succeeds; and propagating
secret information in the N trusted computing units on which trust authentication
succeeds, so that the N trusted computing units obtain the same secret information to
form the trusted computing cluster.

20 FIG. 3