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1: for each unmapped virtual link  $l \in G_i^V$  do
2:    $bw_r = bw^V(l), k = lev^V(l), flag = 0.$ 
3:   if  $l$  is splittable then
4:      $split = 1.$ 
5:   else
6:      $split = \text{MAX\_SPLIT\_TIME}.$ 
7:   Let  $m_1, m_2 \in G^S$  be the hosts of both ends of  $l.$ 
8:   repeat
9:     if  $\exists p \in P^S$  s.t.  $p : m_1 \rightarrow m_2$  has the minimum  $PCC(p, k)$  then
10:       $bw^S(p) = \min_{t \in p} bw^S(t), t \in L^S.$ 
11:      Map the remaining resources of  $l$  onto  $p.$ 
12:       $bw_r = bw_r - bw^S(p).$ 
13:      if  $bw_r \geq 0$  then
14:         $flag = 1.$ 
15:      else
16:         $split = \text{MAX\_SPLIT\_TIME} + 1.$ 
17:   until  $flag = 1$  or  $split > \text{MAX\_SPLIT\_TIME}$ 
18:   if  $flag = 0$  then
19:     return MAP_FAILED.
20: return MAP_SUCCESS.

```