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1: function CHECK_DEVICE_LEVEL_CONSTRAINTS(ied, solution)
2:   acc_store :=  $\emptyset$ 
3:
4:   for all fb in include_generated_Fbs(solution[ied]) do
5:     for all constraint in get_device_level_constraints() do
6:       if get_type(constraint) == "Asserting" then
7:         if not device_check(constraint, ied) then
8:           return false
9:         else if not fb_check(constraint, fb) then
10:          return false
11:        end if
12:      else if get_type(constraint) == "Accumulating" then
13:        acc_store[constraint] += fb_check(constraint, fb)
14:      end if
15:    end for
16:  end for
17:
18:  for all constraint in get_device_level_constraints() do
19:    if get_type(constraint) == "Accumulating" then
20:      if acc_store[constraint] > device_check(constraint, ied) then
21:        return false
22:      end if
23:    end if
24:  end for
25:
26:  return true
27: end function

```