





























| Fairness |
|---|
| Example: N = 4 x_i= 4, 2, 10, 4 for i=14 w_i= 2.5, 4, 0.5, 1 for i=14 C = 16 Normalize weights w_i= 5, 8, 1, 2 for i=14 View as if there are 5+8+1+2 shares to distribute, n=16 (not 4) C/n = 1 So source 1 > 5 So source 2 > 8 So source 3 > 1 So source 4 > 2 Source 1 needs 4 so there is 1 unit of resource to distribute Source 2 needs 2 so there is 6 unit of resource to distribute Source 3 needs 10 so it is backlogged Source 4 needs 4 so it is backlogged Now have 7 units to distribute to sources 3 and 4 Note w₃+w₄= 3 Source 3 gets 7*(1/3) more units Source 4 gets 7*(2/3) for 2+.7*(2/3) = 6.66 > 4 that excess goes to sources 3 more units but Final allocation 4, 2, 6, 4 |
| From: S. Kehav, "An Engineering Approach to Computer Networking, Addison-Wesley Professional Computing Series, 1997 |









































































