

Constant Bandwidth server

Abstract: Throughout this paper is explained what the constant Bandwidth Server means. Its history, characteristics, use cases, advantages, disadvantages, how we can improve it and future trends.

Introduction:

CBS is a dynamic priority server [3] - used to schedule soft aperiodic tasks and hard periodic tasks under dynamic priority assignments. [Internet]

CBS: “ An algorithm for providing temporal protection and real-time guarantees to real-time sporadic tasks ” [1]

- Novel service mechanism- CBS
- Bandwidth reservation strategy [2]

“CBS is an algorithm for providing temporal protection and real-time guarantees to real-time sporadic tasks.” [3]

References:

[1] [Constant bandwidth server revisited | ACM SIGBED Review](#)

[2] (Real-Time Systems Series 24) Giorgio C. Buttazzo (auth.) - Hard Real-Time Computing Systems_ Predictable Scheduling Algorithms and Applications-Springer US (2011)

Chapter 6, Dynamic priority servers, 6.9 The Constant Bandwidth Server

[3] [dlmiss-n.eps \(ceur-ws.org\)](#)

[Hard Constant Bandwidth Server: Comprehensive formulation and critical scenarios | IEEE Conference Publication | IEEE Xplore](#)

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