

Title (en)  
HIERARCHICAL PRIORITIZED ROUND ROBIN (HPRR) SCHEDULING

Title (de)  
ABLAUFSTEUERUNG MIT UMLAUFEND HIERARCHISCHEN PRIORITÄTEN

Title (fr)  
PROGRAMMATION PAR PERMUTATION CIRCULAIRE (HPRR) PAR ORDRE DE PRIORITE HIERARCHIQUE

Publication  
**EP 1221214 A1 20020710 (EN)**

Application  
**EP 00965409 A 20000925**

Priority  
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• US 15612399 P 19990925

Abstract (en)  
[origin: WO0124428A1] The HPRR method uses token bucket rate classifiers to mark each individual packet as conforming or not conforming to a traffic specification for the flow [PER-FLOW QUEUES 1, 2, 3, 4]. Flows are considered to be in a single service class [CLASS A, B, D]. One such class is distinguished as a default "best effort" service class [D]. Each service class is assigned a weight corresponding to its fraction of bandwidth granted to the class when all classes are active. The HPRR method allows a packet from a flow to be forwarded in one of two ways, either as part of its class's allocated bandwidth or as part of the best effort bandwidth. By always providing two paths for a flow to send its packets, a flow is always given its fair share of two different classes: its primary or configured class and the best effort class.

IPC 1-7  
**H04J 3/22**; **H04L 12/56**

IPC 8 full level  
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CPC (source: EP)  
**H04L 47/20** (2013.01); **H04L 47/215** (2013.01); **H04L 47/2441** (2013.01); **H04L 47/31** (2013.01); **H04L 47/50** (2013.01); **H04L 47/525** (2013.01); **H04L 47/527** (2013.01); **H04L 47/621** (2013.01); **H04L 47/6215** (2013.01); **H04L 47/6225** (2013.01)

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