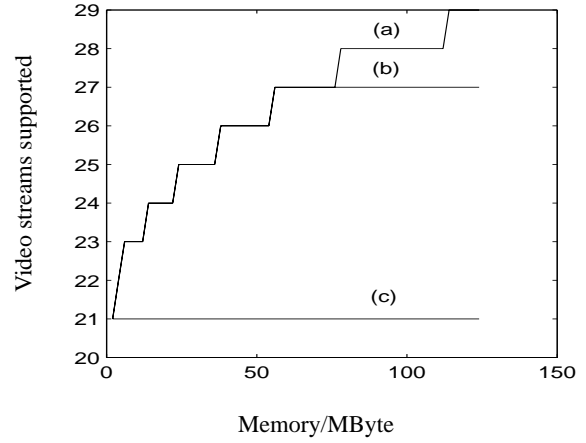


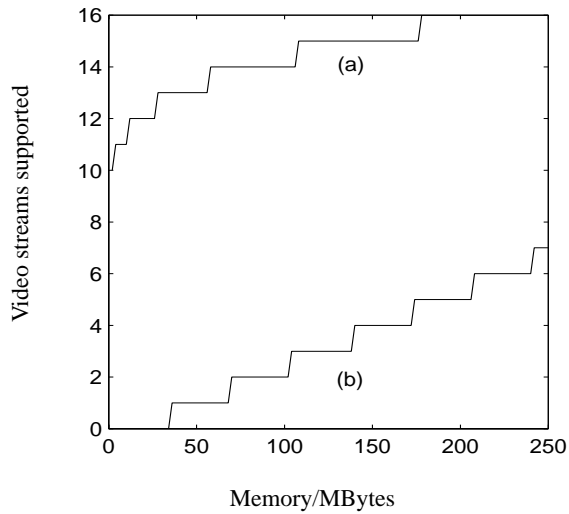
**Fig. 18.** Performance comparison of MR and CT retrieval (disk system 1)

- (a) MR retrieval PDT QoS 10.0
- (b) MR retrieval PDT QoS 2.0
- (c) CT retrieval (PDT QoS 0.0)



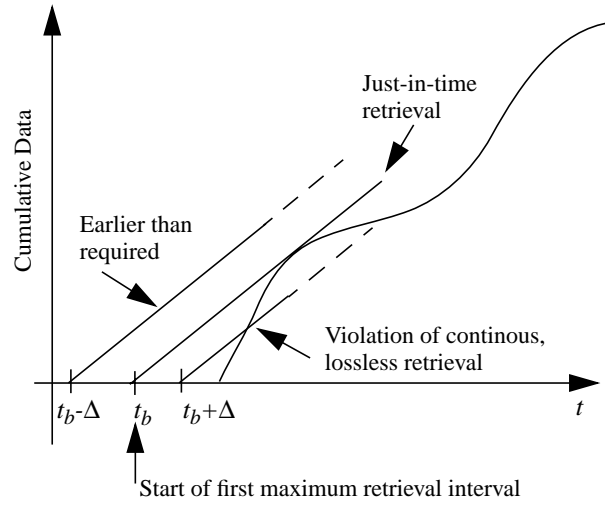
**Fig. 19.** Performance comparison of MR and CT retrieval (disk system 2)

- (a) MR retrieval PDT QoS 10.0
- (b) MR retrieval PDT QoS 2.0
- (c) CT retrieval (PDT QoS 0.0)

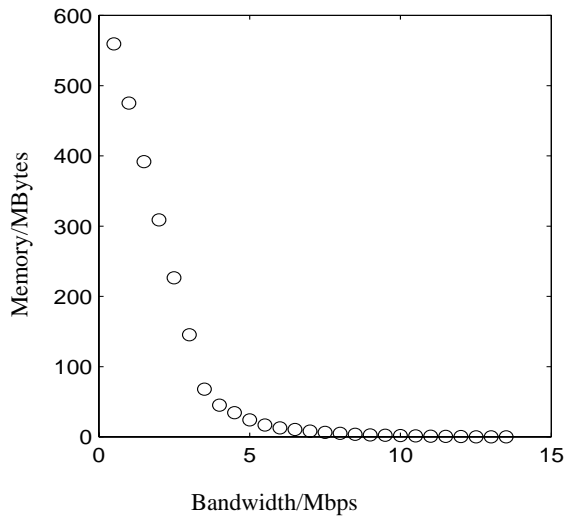


**Fig. 20.** Performance comparison of MR and CD retrieval (disk system 1)

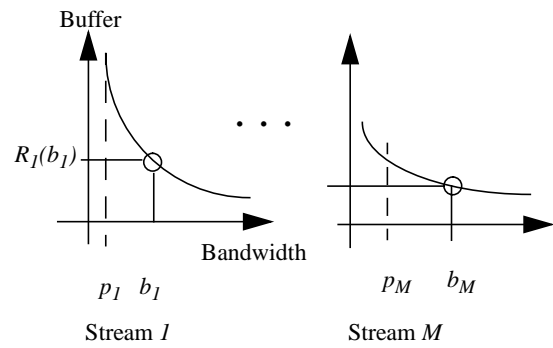
- (a) MR retrieval (PDT QoS 135.0 sec)
- (a) CD retrieval (PDT QoS 135.0 sec)



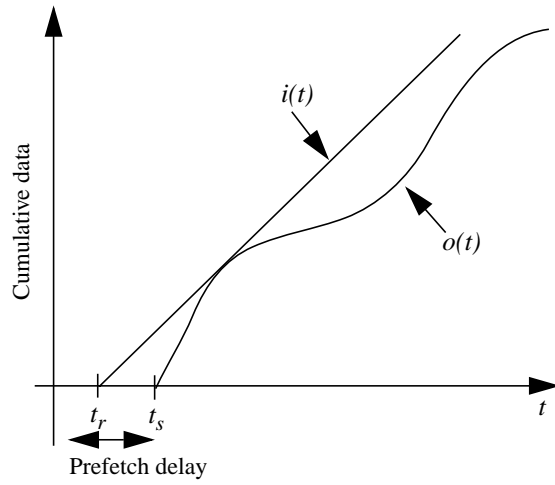
**Fig. 15.** MR retrieval optimality



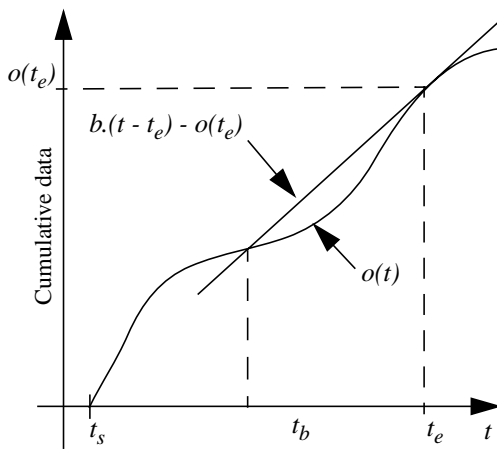
**Fig. 16.** Resource relation of MPEG-2 VBR video



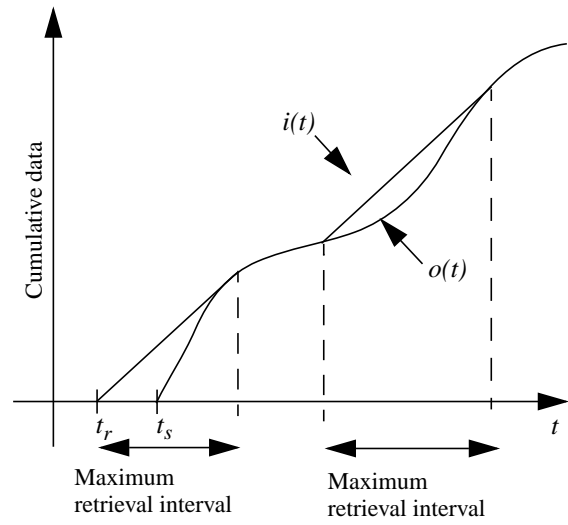
**Fig. 17.** Resource reservation problem



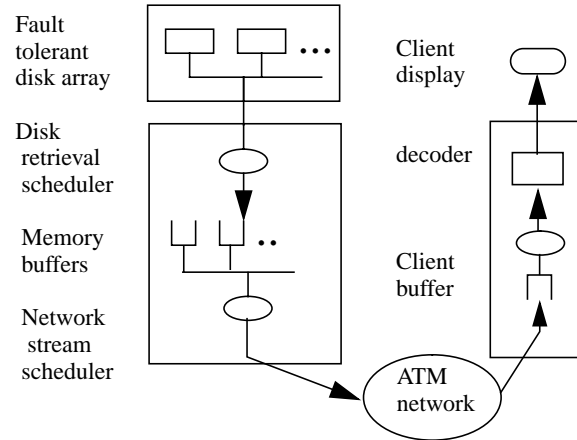
**Fig. 12** Cumulative data analysis for CD retrieval



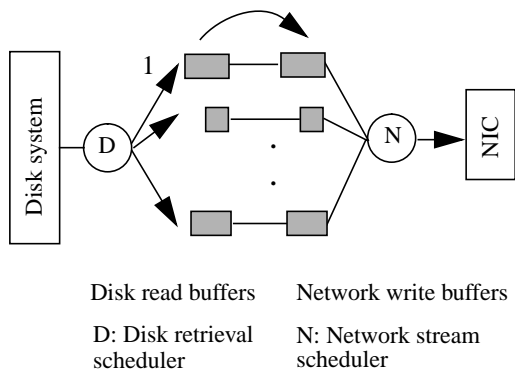
**Fig. 13.** Determination of MR retrieval



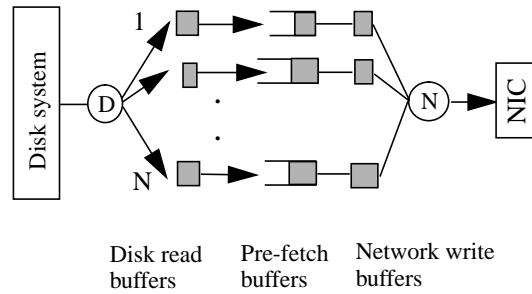
**Fig. 14.** Cumulative data analysis for MR retrieval



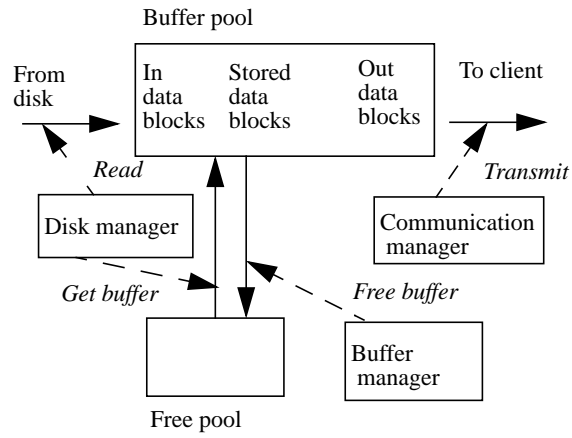
**Fig. 9.** Video server/ VoD architecture



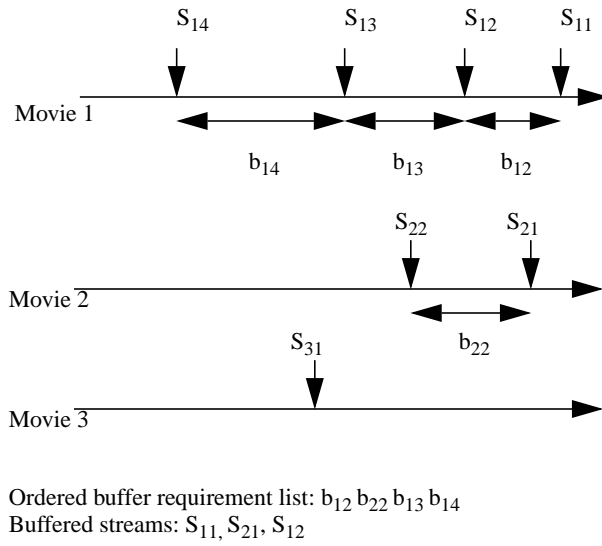
**Fig. 10.** CT retrieval



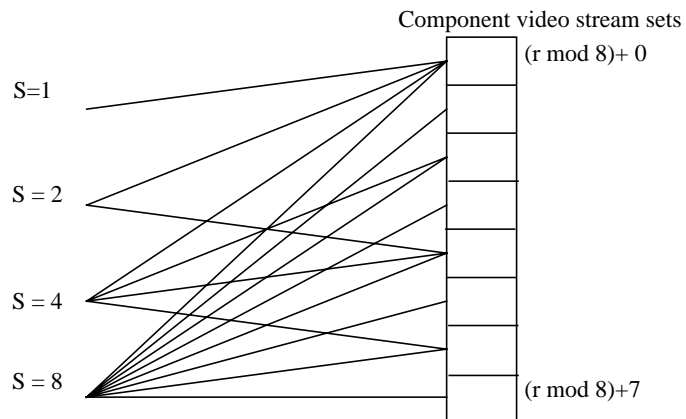
**Fig. 11.** CD retrieval



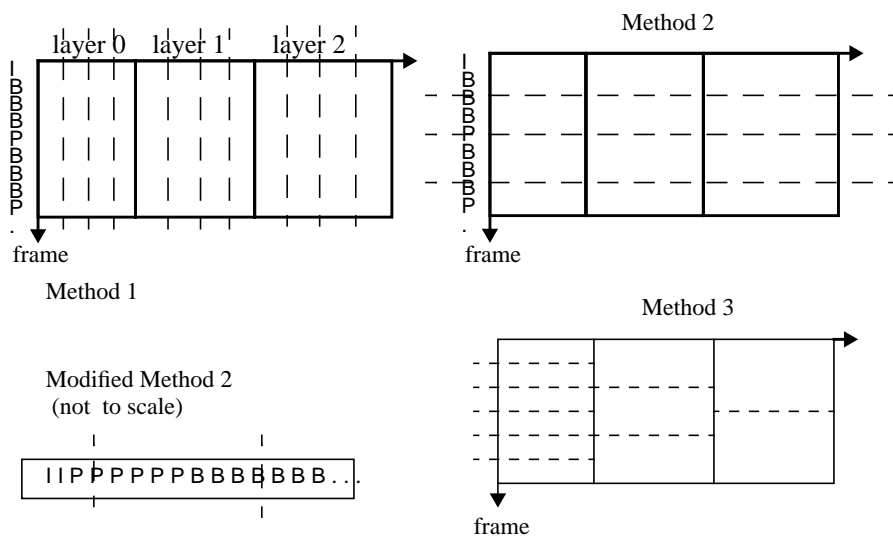
**Fig. 7.** Interval caching system model



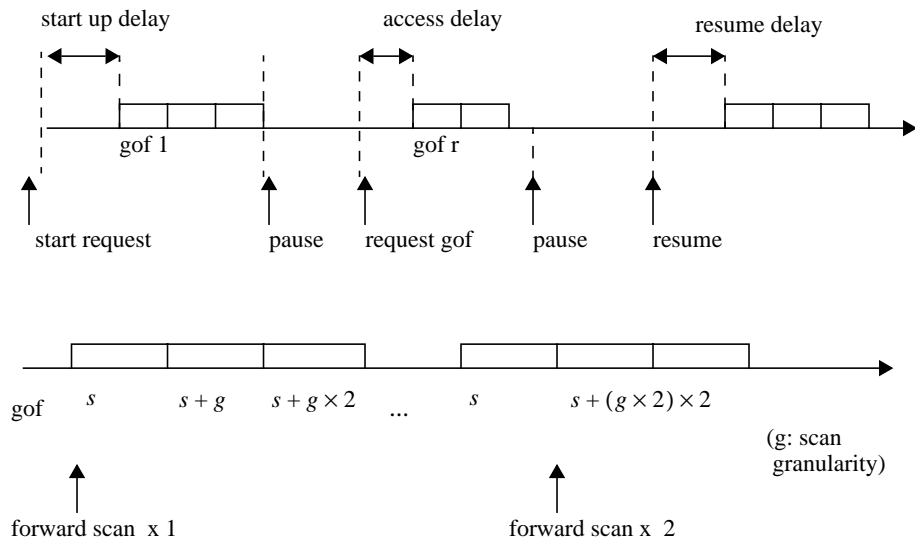
**Fig. 8.** Interval caching policy



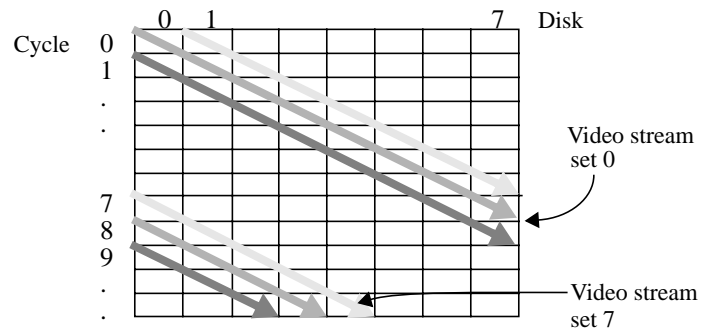
**Fig. 5.** Component video streams sets for the retrieval of video stream at cycle  $r$ .



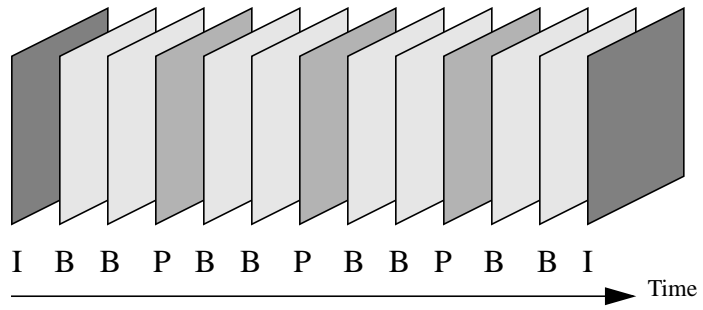
**Fig. 6.** Multiple segmentation based on scalable MPEG2 video.



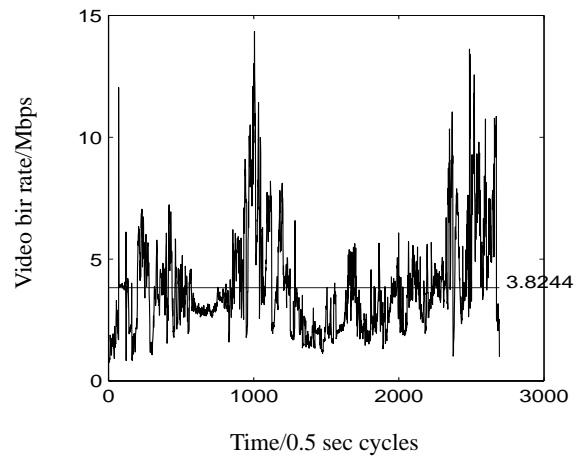
**Fig. 3.** Interactivity functions of video server.



**Fig. 4.** Video stream sets for periodical placement strategy.



**Fig. 1** Typical MPEG group of pictures.



**Fig. 2.** MPEG-2 VBR video trace data.