The Study of a Caching Proxy Server with Real-Time Upgrade Ability

藍振商、楊豐兆

E-mail: 9806284@mail.dyu.edu.tw

ABSTRACT

Along with customer ’s equipment and bandwidth upgrading, web service must provide loading of server ’s equipment to match relative service. The goal of this study is decreasing loading of server and reducing response time of web page service.

This research use building the way of Caching Proxy Server to reduce huge loading when saving the database or data operation on general dynamic website, on the other hand it can increase hits rate of catch server to provide processing function with user behavior in advance. In view of it will bring function of webpage change notice on dynamic website in common problem which is reading past data.

To link up processing function with user behavior in advance and function of web page change notice, obtaining certainly data on website display, it can make user reduce waiting time、decrease loading of CPU、increase hits rate and upgrade information uniformity.

Keywords : proxy server、cache、prefetch、dynamic web pages

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REFERENCES

一、中文部份林逸祥、林盈達(2001)，快取伺服器之比較、追蹤與評估，台灣網際網路研討會論文集(pp.196-212)，嘉義:中正大學。二、英文部份Abdolreza, P., Sivarama P., & Shikharesh M. (2006). Web object-based storage management in proxy caches. Future Generation Computer Systems, 22(1), 16-31.Aharony, N., (2009). Web 2.0 use by librarians. Library & Information Science Research, 31(1), 29-37.Balamash, A., Krunz, M., Nain, P.(2007). Performance analysis of a client-side aching/prefetching system for Web traffic. Computer Networks, 51(13), 3673-3692.Caiceres, R., Douglis, F., Feldmann, A., Glass, G., & Rabinovich, M. (1998). Web Proxy Caching The Devil is in the Details. ACM SIGMETRICS Performance Evaluation Review, 11-15.Caruso, J.(2000). Foundry extends server load-balancing reach [Online]. Available: http://www.nwfusion.com/archive/2000/84794_01-17-2000.html.Chiang, M. L., Lin, Y. C., & Guo, L. F. (2008). Design and implementation of an efficient web cluster with content-based request distribution and file caching. Journal of Systems and Software.Drake, P. (1991), Using SNMP to manage networks. Designing Resilient Architectures, IEE Colloquium on, pp.2/1-2/4.Eastlake, D. (1997). Dynamic Updates in the Domain Name System. RFC2137.Egevang, K., & Francis, P. (1994). The IP Network Address Translator. RFC 1631.Fielding, R., Gettys, J., Mogul, J., Frystyk, H., & Lee, B. (1997), Hypertext Transfer Protocol. Internet Request for Comments 2068.Huang, Y. F., & Hsu, J. M. (2008). Mining web logs to improve hit ratios of prefetching and caching. Knowledge-Based Systems, 21(1), 62-69.Kumar, C. (2009). Performance evaluation for implementations of a network of proxy caches. Decision Support Systems, 46(2), 492-500.Lam, K. Y., & Ngan, C. H. (1998). Temporal pre-fetching of dynamic web pages. ACM SIGMETRICS Performance Evaluation Review, 11-15.Rob, T(1995). The Apache HTTP Server Project [Online]. Available: http:// httpd.apache.org/.
[1995, Dec 1].Vixie, P., & Wessels, D. (2000). Hyper Text Caching Protocol. RFC 2756.Wessels, D., & Claffy, K (1997). Application of Internet Cache Protocol. RFC2187.Wong, C., (2000). HTTP Packet Reference. O ’ REILLY.Zhang, W., Jin, S., and Wu, Q.(2000). Scaling Internet services by LinuxDirector. The Fourth International Conference/Exhibition.