

CACHEBOOST SERVER EDITION

HAMMAD RAJJOUN

📖 **WEB CACHING** DUANE WESSELS, 2001 ON THE WORLD WIDE WEB, SPEED AND EFFICIENCY ARE VITAL. USERS HAVE LITTLE PATIENCE FOR SLOW WEB PAGES, WHILE NETWORK ADMINISTRATORS WANT TO MAKE THE MOST OF THEIR AVAILABLE BANDWIDTH. A PROPERLY DESIGNED WEB CACHE REDUCES NETWORK TRAFFIC AND IMPROVES ACCESS TIMES TO POPULAR WEB SITES--A BOON TO NETWORK ADMINISTRATORS AND WEB USERS ALIKE. WEB CACHING HANDS YOU ALL THE TECHNICAL INFORMATION YOU NEED TO DESIGN, DEPLOY, AND OPERATE AN EFFECTIVE WEB CACHING SERVICE. IT STARTS WITH THE BASICS OF HOW WEB CACHING WORKS, FROM THE HTTP HEADERS THAT GOVERN CACHABILITY TO CACHE VALIDATION AND REPLACEMENT ALGORITHMS. TOPICS COVERED IN THIS BOOK INCLUDE: DESIGNING AN EFFECTIVE CACHE SOLUTION CONFIGURING WEB BROWSERS TO USE A CACHE SETTING UP A COLLECTION OF CACHES THAT CAN TALK TO EACH OTHER CONFIGURING AN INTERCEPTION CACHE OR PROXY MONITORING AND FINE-TUNING THE PERFORMANCE OF A CACHE CONFIGURING WEB SERVERS TO COOPERATE WITH WEB CACHES BENCHMARKING CACHE PRODUCTS THE BOOK ALSO COVERS THE IMPORTANT POLITICAL ASPECTS OF WEB CACHING, INCLUDING PRIVACY, INTELLECTUAL PROPERTY, AND SECURITY ISSUES. INTERNET SERVICE PROVIDERS, LARGE CORPORATIONS, OR EDUCATIONAL INSTITUTIONS--IN SHORT, ANY NETWORK THAT PROVIDES CONNECTIVITY TO A WIDE VARIETY OF USERS--CAN REAP ENORMOUS BENEFIT FROM RUNNING A WELL-TUNED WEB CACHING SERVICE. WEB CACHING SHOWS YOU HOW TO DO IT RIGHT.

📖 **INSTANT VARNISH CACHE HOW-TO** ROBERTO MOUTINHO, 2013 HANDS-ON RECIPES TO IMPROVE YOUR WEBSITE'S LOAD SPEED AND OVERALL USER EXPERIENCE WITH VARNISH LEARN SOMETHING NEW IN AN INSTANT! A SHORT, FAST, FOCUSED GUIDE DELIVERING IMMEDIATE RESULTS. CONNECT AND HEALTH-CHECK APPLICATION SERVERS WITH VARNISH CACHE LOAD BALANCE REQUESTS ACROSS CLUSTERED SERVERS DEFINE CACHING POLICIES AND REQUEST/RESPONSE WORKFLOW IN DETAIL WHEN YOU'RE DOING BUSINESS ON THE WEB, EVERY SECOND COUNTS. 80 PERCENT OF THE END USER RESPONSE TIME IS SPENT ON DOWNLOADING CONTENT TO THE BROWSER, AND VARNISH CACHE IS HERE TO HELP YOU SOLVE THIS PROBLEM IN A SIMPLE AND EFFECTIVE WAY. VARNISH CACHE HOW-TO IS A PRACTICAL, HANDS-ON GUIDE THAT WILL TAKE YOU FROM BEGINNER TO ADVANCED, IMPROVING YOUR WEBSITE SPEED AND DROPPING THE BOUNCE AND PAGE ABANDONMENT RATES OF YOUR WEBSITE. WITH EASY-TO-FOLLOW RECIPES, THIS BOOK WILL HELP YOU TAKE ADVANTAGE OF CACHING YOUR APPLICATION SERVER'S RESPONSE TO AVOID A DUPLICATED WORKLOAD. THIS BOOK WILL TAKE YOU FROM THE INSTALLATION OF THE VARNISH CACHE SERVER TO DEFINING CACHING POLICIES, THE NORMALIZATION OF STATIC CONTENT, AND A FINAL PRODUCTION-READY FAST AND SCALABLE CACHE SERVER. YOU WILL LEARN TO BALANCE REQUESTS ACROSS SERVERS BASED ON

INPUT DATA OR PRE-DEFINED SETTINGS, CREATE PERSISTED SESSIONS (STICKY SESSIONS), COMPRESS STATIC CONTENT, AND MODIFY REQUESTS. IF YOU WANT TO IMPROVE THE SPEED AND ALSO PROVIDE A FAIL-OVER MECHANISM TO ACHIEVE A FAST AND AVAILABLE WEBSITE, THEN THIS BOOK IS FOR YOU. BY THE END OF THIS BOOK, YOU'LL LEARN HOW TO SCALE AND IMPROVE THE USER'S EXPERIENCE BY PROVIDING A FAST AND AVAILABLE WEBSITE.

📖 **GETTING STARTED WITH VARNISH CACHE** THIJS FERYN, 2017-03-13 HOW LONG DOES IT TAKE FOR YOUR WEBSITE TO LOAD? WEB PERFORMANCE IS JUST AS CRITICAL FOR SMALL AND MEDIUM-SIZED WEBSITES AS IT IS FOR MASSIVE WEBSITES THAT RECEIVE TONS OF HITS. BEFORE YOU POUR MONEY AND TIME INTO REWRITING YOUR CODE OR REPLACING YOUR INFRASTRUCTURE, FIRST CONSIDER A REVERSE-CACHING PROXY SERVER LIKE VARNISH. WITH THIS PRACTICAL BOOK, YOU'LL LEARN HOW VARNISH CAN GIVE YOUR WEBSITE OR API AN IMMEDIATE PERFORMANCE BOOST. VARNISH MIMICKS THE BEHAVIOR OF YOUR WEBSERVER, CACHES ITS OUTPUT IN MEMORY, AND SERVES THE RESULT DIRECTLY TO CLIENTS WITHOUT HAVING TO ACCESS YOUR WEBSERVER. IF YOU'RE A WEB DEVELOPER FAMILIAR WITH HTTP, THIS BOOK HELPS YOU MASTER VARNISH BASICS, SO YOU CAN GET UP AND RUNNING IN NO TIME. YOU'LL LEARN HOW TO USE THE VARNISH CONFIGURATION LANGUAGE AND HTTP BEST PRACTICES TO ACHIEVE FASTER PERFORMANCE AND A HIGHER HIT RATE. UNDERSTAND HOW VARNISH HELPS YOU GAIN OPTIMUM WEB PERFORMANCE USE HTTP TO IMPROVE THE CACHE-ABILITY OF YOUR WEBSITES, WEB APPLICATIONS, AND APIs PROPERLY INVALIDATE YOUR CACHE WHEN THE ORIGIN DATA CHANGES OPTIMIZE ACCESS TO YOUR BACKEND SERVERS AVOID COMMON MISTAKES WHEN USING VARNISH IN THE WILD USE LOGGING AND DEBUGGING TOOLS TO EXAMINE THE BEHAVIOR OF VARNISH

📖 **WEB PROXY CACHE REPLACEMENT STRATEGIES** HALA ELAARAG, 2012-12-30 THIS WORK PRESENTS A STUDY OF CACHE REPLACEMENT STRATEGIES DESIGNED FOR STATIC WEB CONTENT. PROXY SERVERS CAN IMPROVE PERFORMANCE BY CACHING STATIC WEB CONTENT SUCH AS CASCADING STYLE SHEETS, JAVA SCRIPT SOURCE FILES, AND LARGE FILES SUCH AS IMAGES. THIS TOPIC IS PARTICULARLY IMPORTANT IN WIRELESS AD HOC NETWORKS, IN WHICH MOBILE DEVICES ACT AS PROXY SERVERS FOR A GROUP OF OTHER MOBILE DEVICES. OPENING CHAPTERS PRESENT AN INTRODUCTION TO WEB REQUESTS AND THE CHARACTERISTICS OF WEB OBJECTS, WEB PROXY SERVERS AND SQUID, AND ARTIFICIAL NEURAL NETWORKS. THIS IS FOLLOWED BY A COMPREHENSIVE REVIEW OF CACHE REPLACEMENT STRATEGIES SIMULATED AGAINST DIFFERENT PERFORMANCE METRICS. THE WORK THEN DESCRIBES A NOVEL APPROACH TO WEB PROXY CACHE REPLACEMENT THAT USES NEURAL NETWORKS FOR DECISION MAKING, EVALUATES ITS PERFORMANCE AND DECISION STRUCTURES, AND EXAMINES ITS IMPLEMENTATION IN A REAL ENVIRONMENT, NAMELY, IN THE SQUID PROXY SERVER.

📖 WEB CACHING AND CONTENT DELIVERY A. BESTAVROS, M.

RABINOVICH, 2001-12-14 THE INTERNATIONAL WEB CONTENT CACHING AND DISTRIBUTION WORKSHOP (WCW) IS A PREMIERE TECHNICAL MEETING FOR RESEARCHERS AND PRACTITIONERS INTERESTED IN ALL ASPECTS OF CONTENT CACHING, DISTRIBUTION AND DELIVERY ON THE INTERNET. THE 2001 WCW MEETING WAS HELD ON THE BOSTON UNIVERSITY CAMPUS. BUILDING ON THE SUCCESSES OF THE FIVE PREVIOUS WCW MEETINGS, WCW01 FEATURED A STRONG TECHNICAL PROGRAM AND RECORD PARTICIPATION FROM LEADING RESEARCHERS AND PRACTITIONERS IN THE FIELD. THIS BOOK CONSISTS OF ALL THE TECHNICAL PAPERS PRESENTED AT WCW'01. IT INCLUDES 20 FULL PAPERS AND FOUR R&D SYNOPSES THAT WERE PRESENTED AT THE WORKSHOP. THE COLLECTION REFLECTS THE LATEST RESEARCH IN THIS IMPORTANT AREA, INCLUDING SUCH TOPICS AS CONTENT DELIVERY NETWORKS (CDNs), TOOLS AND METHODOLOGY OF PERFORMANCE MEASUREMENTS, WEB CHARACTERIZATION AS RELATES TO CACHING AND CONTENT DISTRIBUTION, SCALABLE WEB SERVER ARCHITECTURES, CACHE PREFETCHING, EMERGING NEW EDGE SERVICES, AND DELIVERY OF STREAMING CONTENT.

📖 SQUID: THE DEFINITIVE GUIDE DUANE WESSELS, 2004-01-22 SQUID IS THE MOST POPULAR WEB CACHING SOFTWARE IN USE TODAY, AND IT WORKS ON A VARIETY OF PLATFORMS INCLUDING LINUX, FREEBSD, AND WINDOWS. SQUID IMPROVES NETWORK PERFORMANCE BY REDUCING THE AMOUNT OF BANDWIDTH USED WHEN SURFING THE WEB. IT MAKES WEB PAGES LOAD FASTER AND CAN EVEN REDUCE THE LOAD ON YOUR WEB SERVER. BY CACHING AND REUSING POPULAR WEB CONTENT, SQUID ALLOWS YOU TO GET BY WITH SMALLER NETWORK CONNECTIONS. IT ALSO PROTECTS THE HOST ON YOUR INTERNAL NETWORK BY ACTING AS A FIREWALL AND PROXYING YOUR INTERNAL WEB TRAFFIC. YOU CAN USE SQUID TO COLLECT STATISTICS ABOUT THE TRAFFIC ON YOUR NETWORK, PREVENT USERS FROM VISITING INAPPROPRIATE WEB SITES AT WORK OR SCHOOL, ENSURE THAT ONLY AUTHORIZED USERS CAN SURF THE INTERNET, AND ENHANCE YOUR PRIVACY BY FILTERING SENSITIVE INFORMATION FROM WEB REQUESTS. COMPANIES, SCHOOLS, LIBRARIES, AND ORGANIZATIONS THAT USE WEB-CACHING PROXIES CAN LOOK FORWARD TO A MULTITUDE OF BENEFITS. WRITTEN BY DUANE WESSELS, THE CREATOR OF SQUID, SQUID: THE DEFINITIVE GUIDE WILL HELP YOU CONFIGURE AND TUNE SQUID FOR YOUR PARTICULAR SITUATION. NEWCOMERS TO SQUID WILL LEARN HOW TO DOWNLOAD, COMPILE, AND INSTALL CODE. SEASONED USERS OF SQUID WILL BE INTERESTED IN THE LATER CHAPTERS, WHICH TACKLE ADVANCED TOPICS SUCH AS HIGH-PERFORMANCE STORAGE OPTIONS, REWRITING REQUESTS, HTTP SERVER ACCELERATION, MONITORING, DEBUGGING, AND TROUBLESHOOTING SQUID. TOPICS COVERED INCLUDE: COMPILING AND INSTALLING SQUID RUNNING SQUID USING SQUID'S SOPHISTICATED ACCESS CONTROLS TUNING DISK STORAGE FOR OPTIMAL PERFORMANCE CONFIGURING YOUR OPERATING SYSTEM FOR HTTP

INTERCEPTION FORWARDING REQUESTS TO OTHER WEB CACHES USING REDIRECTORS
TO REWRITE USER REQUESTS MONITORING SQUID WITH THE CACHE MANAGER AND
SNMP USING SQUID TO ACCELERATE AND PROTECT HTTP SERVERS MANAGING
BANDWIDTH CONSUMPTION WITH DELAY POOLS

☐ *WEB CACHING AND REPLICATION* MICHAEL RABINOVICH, OLIVER
SPATSHECK, 2002 In *WEB CACHING AND REPLICATION*, TWO AT&T LABS
EXPERTS BRING TOGETHER REAL-WORLD IMPLEMENTATIONS, THE LATEST IETF AND
W3C TECHNICAL STANDARDS, AND THE FIELD'S MOST ADVANCED RESEARCH,
OFFERING SYSTEMATIC GUIDANCE FOR MAXIMIZING WEB SCALABILITY AND
PERFORMANCE. THE AUTHORS FIRST INTRODUCE KEY CONCEPTS OF WEB CACHING
AND REPLICATION. THEY INTRODUCE HTTP'S SUPPORT FOR CACHING AND
REPLICATION, AND BROADLY CHARACTERIZE WEB BEHAVIOR, OFFERING PRACTICAL
RULES OF THUMB FOR OPTIMIZING PERFORMANCE. NEXT, THEY FOCUS ON CACHING,
HELPING IMPLEMENTERS REALISTICALLY ASSESS PROXY CACHING, DEPLOY PROXIES IN
CORPORATE AND ISP NETWORKS; AND UTILIZE COOPERATIVE PROXY CACHING. THEY
OFFER IN-DEPTH INSIGHTS INTO CACHE CONSISTENCY, AND CACHING THE
UNCACHEABLE -- INCLUDING COOKIED AND DYNAMIC CONTENT. PART III INTRODUCES
TODAY'S BEST TECHNIQUES FOR WEB REPLICATION, OFFERING IN-DEPTH COVERAGE
OF CONTENT DELIVERY NETWORKS, SERVER SELECTION, CONTENT PLACEMENT, AND
MORE. FOR ALL NETWORKING PROFESSIONALS, IT PROFESSIONALS, AND ENGINEERS
INVOLVED WITH BUILDING OR OPTIMIZING INTERNET SERVICES OR EQUIPMENT; FOR
CONTENT DELIVERY SPECIALISTS AND SERVICE PROVIDERS; AND FOR OWNERS OF
LARGE SITES CONCERNED ABOUT SCALABILITY AND PERFORMANCE.

☐ *WEB CACHING AND ITS APPLICATIONS* S.V. NAGARAJ, 2004-06 THE LAST
DECADE HAS SEEN A TREMENDOUS GROWTH IN THE USAGE OF THE WORLD WIDE
WEB. THE WEB HAS GROWN SO FAST THAT IT SEEMS TO BE BECOMING AN
UNUSABLE AND SLOW BEHEMOTH. WEB CACHING IS ONE WAY TO TAME AND MAKE
THIS BEHEMOTH A FRIENDLY AND USEFUL GIANT. THE KEY IDEA IN WEB CACHING IS
TO CACHE FREQUENTLY ACCESSED CONTENT SO THAT IT MAY BE USED PROFITABLY
LATER. THIS BOOK FOCUSES ENTIRELY ON WEB CACHING TECHNIQUES. MUCH OF THE
MATERIAL IN THIS BOOK IS VERY RELEVANT FOR THOSE INTERESTED IN
UNDERSTANDING THE WIDE GAMUT OF WEB CACHING RESEARCH. IT WILL BE HELPFUL
FOR THOSE INTERESTED IN MAKING USE OF THE POWER OF THE WEB IN A MORE
PROFITABLE WAY. AUDIENCE AND PURPOSE OF THIS BOOK THIS BOOK PRESENTS KEY
CONCEPTS IN WEB CACHING AND IS MEANT TO BE SUITED FOR A WIDE VARIETY OF
READERS INCLUDING ADVANCED UNDERGRADUATE AND GRADUATE STUDENTS,
PROGRAMMERS, NETWORK ADMINISTRATORS, RESEARCHERS, TEACHERS, TECHN-
OLOGISTS AND INTERNET SERVICE PROVIDERS (ISPs).

☐ *MICROSOFT WINDOWS SERVER APPFABRIC COOKBOOK* HAMMAD
RAJJOUB, 2012-07-26 OVER 60 RECIPES FOR GETTING THE MOST OUT OF

WCF/WF SERVICES ON THE MICROSOFT WINDOWS PLATFORM USING WINDOWS SERVER APPFABRIC WITH THIS BOOK AND EBOOK.

📖 **CLIENT DATA CACHING** MICHAEL J. FRANKLIN, 1996-03-31 THIS BOOK IS CONCERNED WITH THE ARCHITECTURAL ALTERNATIVES FOR CLIENT-SERVER DATABASE SYSTEMS, PRESENTING THE ARGUMENTS FOR USING CACHING AS THE BASIS FOR CONSTRUCTING PAGE SERVER DATABASE SYSTEMS, AND PROVIDING AN OVERVIEW OF OTHER ENVIRONMENTS IN WHICH CACHING-RELATED ISSUES ARISE. A SIGNIFICANT AMOUNT OF THE TEXT IS FOCUSED ON THE DEVELOPMENT AND SIMULATION-BASED PERFORMANCE ANALYSIS OF ALGORITHMS FOR DATA CACHING AND MEMORY MANAGEMENT, INCLUDING A PERFORMANCE STUDY OF SEVEN PROPOSED ALGORITHMS. CACHING-BASED TECHNIQUES TO FURTHER IMPROVE SYSTEM PERFORMANCE AND SCALABILITY, AND CLIENT DATA CACHING AS AN ORGANIZING PRINCIPLE FOR DISTRIBUTED INFORMATION SYSTEMS. THIS BOOK IS FOR ANYONE INTERESTED IN THE PERFORMANCE AND ARCHITECTURE OF DISTRIBUTED INFORMATION SYSTEMS, AND OBJECT-BASED DATABASE MANAGEMENT SYSTEMS PARTICULARLY.

📖 **BOOST.ASIO C++ NETWORK PROGRAMMING COOKBOOK** DMYTRO RADCHUK, 2016-01-25 OVER 25 HANDS-ON RECIPES TO CREATE ROBUST AND HIGHLY-EFFICIENT CROSS-PLATFORM DISTRIBUTED APPLICATIONS WITH THE BOOST.ASIO LIBRARY ABOUT THIS BOOK BUILD HIGHLY EFFICIENT DISTRIBUTED APPLICATIONS WITH EASE ENHANCE YOUR CROSS-PLATFORM NETWORK PROGRAMMING SKILLS WITH ONE OF THE MOST REPUTABLE C++ LIBRARIES FIND SOLUTIONS TO REAL-WORLD PROBLEMS RELATED TO NETWORK PROGRAMMING WITH READY-TO-USE RECIPES USING THIS DETAILED AND PRACTICAL HANDBOOK WHO THIS BOOK IS FOR IF YOU WANT TO ENHANCE YOUR C++ NETWORK PROGRAMMING SKILLS USING THE BOOST.ASIO LIBRARY AND UNDERSTAND THE THEORY BEHIND DEVELOPMENT OF DISTRIBUTED APPLICATIONS, THIS BOOK IS JUST WHAT YOU NEED. THE PREREQUISITE FOR THIS BOOK IS EXPERIENCE WITH GENERAL C++ 11. TO GET THE MOST FROM THE BOOK AND COMPREHEND ADVANCED TOPICS, YOU WILL NEED SOME BACKGROUND EXPERIENCE IN MULTITHREADING. WHAT YOU WILL LEARN BOOST YOUR WORKING KNOWLEDGE OF ONE OF THE MOST REPUTABLE C++ NETWORKING LIBRARIES—BOOST.ASIO FAMILIARIZE YOURSELF WITH THE BASICS OF TCP AND UDP PROTOCOLS CREATE SCALABLE AND HIGHLY-EFFICIENT CLIENT AND SERVER APPLICATIONS UNDERSTAND THE THEORY BEHIND DEVELOPMENT OF DISTRIBUTED APPLICATIONS INCREASE THE SECURITY OF YOUR DISTRIBUTED APPLICATIONS BY ADDING SSL SUPPORT IMPLEMENT A HTTP CLIENT EASILY USE IOSTREAMS, SCATTER-GATHER BUFFERS, AND TIMERS IN DETAIL STARTING WITH RECIPES DEMONSTRATING THE EXECUTION OF BASIC BOOST.ASIO OPERATIONS, THE BOOK GOES ON TO PROVIDE READY-TO-USE IMPLEMENTATIONS OF CLIENT AND SERVER APPLICATIONS FROM SIMPLE SYNCHRONOUS ONES TO POWERFUL MULTITHREADED SCALABLE SOLUTIONS. FINALLY, YOU ARE PRESENTED WITH

ADVANCED TOPICS SUCH AS IMPLEMENTING A CHAT APPLICATION, IMPLEMENTING AN HTTP CLIENT, AND ADDING SSL SUPPORT. ALL THE SAMPLES PRESENTED IN THE BOOK ARE READY TO BE USED IN REAL PROJECTS JUST OUT OF THE BOX. AS WELL AS EXCELLENT PRACTICAL EXAMPLES, THE BOOK ALSO INCLUDES EXTENDED SUPPORTIVE THEORETICAL MATERIAL ON DISTRIBUTED APPLICATION DESIGN AND CONSTRUCTION. STYLE AND APPROACH THIS BOOK IS A SET OF RECIPES, EACH CONTAINING THE STATEMENT AND DESCRIPTION OF A PARTICULAR PRACTICAL PROBLEM FOLLOWED BY CODE SAMPLE PROVIDING THE SOLUTION TO THE PROBLEM AND DETAILED STEP-BY-STEP EXPLANATION. RECIPES ARE GROUPED BY TOPIC INTO CHAPTERS AND ORDERED BY THE LEVEL OF COMPLEXITY FROM BASIC TO ADVANCED.

📖 **HIGHLY CONCURRENT CACHE CONSISTENCY FOR OBJECT-ORIENTED DATABASE SYSTEMS** MARKOS ZAHARIOUDAKIS, 1997

📖 **WEBSphere eXtreme Scale BEST PRACTICES FOR OPERATION AND MANAGEMENT** YING DING, BERTRAND FAYN, ART JOLIN, HENDRIK VAN RUN, CARLA SADTLER, CHUNMO SON, SUKUMAR SUBBURAJ, TONG XIE, IBM REDBOOKS, 2011-08-22 THIS IBM® REDBOOKS® PUBLICATION CONTAINS A SUMMARY OF THE LEADING PRACTICES FOR IMPLEMENTING AND MANAGING A WEBSphere® eXtreme Scale INSTALLATION. THE INFORMATION IN THIS BOOK IS A RESULT OF YEARS OF EXPERIENCE THAT IBM HAS HAD IN WITH PRODUCTION WEBSphere eXtreme Scale IMPLEMENTATIONS. THE INPUT WAS RECEIVED FROM SPECIALISTS, ARCHITECTS, AND OTHER PRACTITIONERS WHO HAVE PARTICIPATED IN ENGAGEMENTS AROUND THE WORLD. THE BOOK PROVIDES A BRIEF INTRODUCTION TO WEBSphere eXtreme Scale AND AN OVERVIEW OF THE ARCHITECTURE. IT THEN PROVIDES ADVICE ABOUT TOPOLOGY DESIGN, CAPACITY PLANNING AND TUNING, GRID CONFIGURATION, OBJECTGRID AND BACKING MAP PLUG-INS, APPLICATION PERFORMANCE TIPS, AND OPERATIONS AND MONITORING. THIS BOOK IS WRITTEN FOR A WEBSphere eXtreme Scale-KNOWLEDGEABLE AUDIENCE.

📖 **ULTRA-FAST ASP.NET** RICK KIESSIG, 2010-08-11 ULTRA-FAST ASP.NET PRESENTS A PRACTICAL APPROACH TO BUILDING FAST AND SCALABLE WEB SITES USING ASP.NET AND SQL SERVER. IN ADDITION TO A WEALTH OF TIPS, TRICKS AND SECRETS, YOU'LL FIND ADVICE AND CODE EXAMPLES FOR ALL TIERS OF YOUR APPLICATION, INCLUDING THE CLIENT, CACHING, IIS 7, ASP.NET, THREADS, SESSION STATE, SQL SERVER, ANALYSIS SERVICES, INFRASTRUCTURE AND OPERATIONS. BY APPLYING THE ULTRA-FAST APPROACH TO YOUR PROJECTS, YOU'LL SQUEEZE EVERY LAST OUNCE OF PERFORMANCE OUT OF YOUR CODE AND INFRASTRUCTURE—GIVING YOUR SITE UNRIVALED SPEED. THE APPROACH IS MOSTLY PRESCRIPTIVE; RATHER THAN DROWNING YOU IN OPTIONS, THE BOOK PRESENTS AND EXPLAINS SPECIFIC HIGH-IMPACT RECOMMENDATIONS AND DEMONSTRATES THEM WITH DETAILED EXAMPLES. USING THIS KNOWLEDGE, YOU WILL SOON BE BUILDING HIGH-PERFORMANCE WEB SITES THAT SCALE EASILY AS YOUR SITE GROWS.

¶ **THE CACHE MEMORY BOOK** JIM HANDY, 1998-01-13 THE SECOND EDITION OF THE CACHE MEMORY BOOK INTRODUCES SYSTEMS DESIGNERS TO THE CONCEPTS BEHIND CACHE DESIGN. THE BOOK TEACHES THE BASIC CACHE CONCEPTS AND MORE EXOTIC TECHNIQUES. IT LEADS READERS THROUGH SOME OF THE MOST INTRICATE PROTOCOLS USED IN COMPLEX MULTIPROCESSOR CACHES. WRITTEN IN AN ACCESSIBLE, INFORMAL STYLE, THIS TEXT DEMYSTIFIES CACHE MEMORY DESIGN BY TRANSLATING CACHE CONCEPTS AND JARGON INTO PRACTICAL METHODOLOGIES AND REAL-LIFE EXAMPLES. IT ALSO PROVIDES ADEQUATE DETAIL TO SERVE AS A REFERENCE BOOK FOR ONGOING WORK IN CACHE MEMORY DESIGN. THE SECOND EDITION INCLUDES AN UPDATED AND EXPANDED GLOSSARY OF CACHE MEMORY TERMS AND BUZZWORDS. THE BOOK PROVIDES NEW REAL WORLD APPLICATIONS OF CACHE MEMORY DESIGN AND A NEW CHAPTER ON CACHE TRICKS. ILLUSTRATES DETAILED EXAMPLE DESIGNS OF CACHES PROVIDES NUMEROUS EXAMPLES IN THE FORM OF BLOCK DIAGRAMS, TIMING WAVEFORMS, STATE TABLES, AND CODE TRACES DEFINES AND DISCUSSES MORE THAN 240 CACHE SPECIFIC BUZZWORDS, COMPARING IN DETAIL THE RELATIVE MERITS OF DIFFERENT DESIGN METHODOLOGIES INCLUDES AN EXTENSIVE GLOSSARY, COMPLETE WITH CLEAR DEFINITIONS, SYNONYMS, AND REFERENCES TO THE APPROPRIATE TEXT DISCUSSIONS

¶ **WEBSHERE eXtreme Scale v8.6 KEY CONCEPTS AND USAGE SCENARIOS** JONATHAN MARSHALL, JOHN PAPE, KRISTI PETERSON, GREG REID, FABIO SANTOS B. DA SILVA, FEDERICO SENESE, IBM REDBOOKS, 2013-09-24 IBM WEBSHERE® eXtreme Scale PROVIDES A SOLUTION TO SCALABILITY ISSUES THROUGH CACHING AND GRID TECHNOLOGY. IT PROVIDES AN ENHANCED QUALITY OF SERVICE IN HIGH PERFORMANCE COMPUTING ENVIRONMENTS. THIS IBM® REDBOOKS® PUBLICATION INTRODUCES WEBSHERE eXtreme Scale AND SHOWS HOW TO SET UP AND USE AN eXtreme Scale ENVIRONMENT. IT BEGINS WITH A DISCUSSION OF THE ISSUES THAT WOULD LEAD YOU TO AN eXtreme Scale SOLUTION. IT THEN DESCRIBES THE ARCHITECTURE OF eXtreme Scale TO HELP YOU UNDERSTAND HOW THE PRODUCT WORKS. IT PROVIDES INFORMATION ABOUT POTENTIAL GRID TOPOLOGIES, THE APIs USED BY APPLICATIONS TO ACCESS THE GRID, AND APPLICATION SCENARIOS THAT SHOW HOW TO EFFECTIVELY USE THE GRID. THIS BOOK IS INTENDED FOR ARCHITECTS WHO WANT TO IMPLEMENT WEBSHERE eXtreme Scale. THE ORIGINAL EDITION OF THIS BOOK WAS BASED ON WEBSHERE eXtreme Scale VERSION 6.1. IT WAS PUBLISHED IN 2008 AND DESCRIBED AS A USER'S GUIDE. THIS SECOND EDITION UPDATES THE INFORMATION BASED ON WEBSHERE eXtreme Scale VERSION 8.6, AND COVERS KEY CONCEPTS AND USAGE SCENARIOS.

¶ **HIGH PERFORMANCE DRUPAL** JEFF SHELTON, NARAYAN NEWTON, NATHANIEL CATCHPOLE, 2013-10-14 HOW CAN YOU HELP YOUR DRUPAL WEBSITE CONTINUE TO PERFORM AT THE HIGHEST LEVEL AS IT GROWS TO MEET DEMAND? THIS COMPREHENSIVE GUIDE PROVIDES BEST PRACTICES, EXAMPLES, AND IN-DEPTH

EXPLANATIONS FOR SOLVING SEVERAL PERFORMANCE AND SCALABILITY ISSUES. YOU'LL LEARN HOW TO APPLY CODING AND INFRASTRUCTURE TECHNIQUES TO DRUPAL INTERNALS, APPLICATION PERFORMANCE, DATABASES, WEB SERVERS, AND PERFORMANCE ANALYSIS. COVERING DRUPAL VERSIONS 7 AND 8, THIS BOOK IS THE IDEAL REFERENCE FOR EVERYTHING FROM SITE DEPLOYMENT TO IMPLEMENTING SPECIFIC TECHNOLOGIES SUCH AS VARNISH, MEMCACHE, OR SOLR. IF YOU HAVE A BASIC UNDERSTANDING OF DRUPAL AND THE LINUX-APACHE-MYSQL-PHP (LAMP) STACK, YOU'RE READY TO GET STARTED. ESTABLISH A PERFORMANCE BASELINE AND DEFINE GOALS FOR IMPROVEMENT OPTIMIZE YOUR WEBSITE'S CODE AND FRONT-END PERFORMANCE GET BEST AND WORST PRACTICES FOR CUSTOMIZING DRUPAL CORE FUNCTIONALITY APPLY INFRASTRUCTURE DESIGN TECHNIQUES TO LAUNCH OR EXPAND A SITE USE TOOLS TO CONFIGURE, MONITOR, AND OPTIMIZE MYSQL PERFORMANCE EMPLOY ALTERNATIVE STORAGE AND BACKEND SEARCH OPTIONS AS YOUR SITE GROWS TUNE YOUR WEB SERVERS THROUGH HTTPD AND PHP CONFIGURATION MONITOR SERVICES AND PERFORM LOAD TESTS TO CATCH PROBLEMS BEFORE THEY BECOME CRITICAL

9 ASSOCIATIVE CACHING IN CLIENT-SERVER DATABASES JULIE BASU, STANFORD UNIVERSITY. COMPUTER SCIENCE DEPARTMENT, 1998 WE FIRST DESCRIBE THE ARCHITECTURE OF A*CACHE AND ITS TRANSACTION EXECUTION MODEL. WE THEN DEVELOP NEW OPTIMIZATION TECHNIQUES FOR IMPROVING THE PERFORMANCE OF A*CACHE. NEXT, A*CACHE PERFORMANCE IS INVESTIGATED THROUGH DETAILED SIMULATION OF A CLIENT-SERVER DATABASE UNDER MANY DIFFERENT WORKLOADS, AND COMPARED WITH OTHER TYPES OF CACHING SYSTEMS. THE SIMULATION RESULTS CLEARLY DEMONSTRATE THE EFFECTIVENESS OF OUR ASSOCIATIVE CACHING SCHEME FOR READ-ONLY ENVIRONMENTS, AND ALSO FOR READ-WRITE SCENARIOS WITH MODERATELY HIGH DATA UPDATE PROBABILITIES.

9 EXAM 70-414 IMPLEMENTING AN ADVANCED SERVER INFRASTRUCTURE MICROSOFT OFFICIAL ACADEMIC COURSE, 2015-01-12 THIS MICROSOFT OFFICIAL ACADEMIC COURSE (MOAC) IT PROFESSIONAL CURRICULUM PREPARES CERTIFICATION STUDENTS FOR SUCCESS EVERY STEP OF THE WAY. THIS 70-414 IMPLEMENTING AN ADVANCED SERVER INFRASTRUCTURE EXAM COURSE IS THE SECOND OF A SERIES OF TWO EXAMS MICROSOFT CERTIFIED SOLUTIONS ASSOCIATES (MCSE) CANDIDATES ARE REQUIRED TO PASS TO GAIN THE MCSE: WINDOWS SERVER 2012 AND WINDOWS SERVER 2012 R2 CERTIFICATION. THESE MCSE EXAMS TEST THE SKILLS AND KNOWLEDGE NECESSARY TO DESIGN, IMPLEMENT, AND MAINTAIN A WINDOWS SERVER 2012 INFRASTRUCTURE IN AN ENTERPRISE SCALED, HIGHLY VIRTUALIZED ENVIRONMENT. PASSING THESE EXAMS CONFIRMS STUDENTS' ABILITY TO PLAN, CONFIGURE, AND IMPLEMENT THE WINDOWS SERVER 2012 SERVICES, SUCH AS SERVER DEPLOYMENT, SERVER VIRTUALIZATION, AND NETWORK ACCESS AND INFRASTRUCTURE. THIS COMPLETE READY-TO-TEACH

MOAC PROGRAM IS MAPPED TO ALL OF THE EXAM OBJECTIVES.

❓ CACHE-RELATED DELAY SERVER FOR APERIODIC JOB HANDLING IN REAL TIME SYSTEMS VARDHMAN JAIN PUKHRAJ JAIN, 2010 EMBEDDED/REAL-TIME SYSTEMS ARE BECOMING UBIQUITOUS IN TODAY'S WORLD AND THEIR PERVASIVE NATURE IS INCREASING WITH THE ADVENT OF CYBER-PHYSICAL SYSTEMS. PROVIDING TEMPORAL GUARANTEES IS PARAMOUNT IN SUCH SYSTEMS. MOST OF THE NORMAL OPERATION IN REAL-TIME SYSTEMS IS MODELED USING PERIODIC TASKS. EVENT-DRIVEN BEHAVIOR IS MODELED USING APERIODIC JOBS. TO ENSURE AN ACCEPTABLE QUALITY OF SERVICE FOR APERIODIC JOBS WITHOUT JEOPARDIZING SAFETY OF PERIODIC TASKS, APERIODIC SERVERS WERE INTRODUCED [2], [3]. APERIODIC SERVERS ARE USED TO RESERVE A QUOTA FOR THE EXECUTION OF APERIODIC JOBS. HOWEVER, THEY DO NOT TAKE INTO ACCOUNT, CACHE-RELATED DELAYS THAT THE EXECUTION OF APERIODIC JOBS COULD IMPOSE ON PERIODIC TASKS, THEREBY MAKING THEIR USE IN SYSTEMS WITH CACHES UNSAFE. IN THIS THESIS, THE AUTHOR INTRODUCES CACHE RELATED DELAY SERVERS TO SOLVE THIS PROBLEM. STATICALLY, EVERY PERIODIC TASK'S WORST-CASE EXECUTION TIME INCLUDES A PRE-DETERMINED DELAY QUOTA FOR DELAY CAUSED BY APERIODIC JOBS. DURING SYSTEM OPERATION, THE APERIODIC SERVER IS ALLOWED TO EXECUTE ONLY IF PERIODIC JOBS THAT MAY BE AFFECTED BY IT HAVE SUFFICIENT DELAY QUOTA TO ACCOMMODATE ITS EXECUTION. OTHERWISE, THE PRIORITY OF THE APERIODIC SERVER IS TEMPORARILY DECREASED TO THE LEVEL OF THE LOWEST-PRIORITY PERIODIC JOB WITH INSUFFICIENT QUOTA, THEREBY ENSURING SAFE EXECUTION OF PERIODIC TASKS.

UNVEILING THE ENERGY OF VERBAL ART: AN PSYCHOLOGICAL SOJOURN THROUGH **CACHEBOOST SERVER EDITION**

IN A WORLD INUNDATED WITH SCREENS AND THE CACOPHONY OF QUICK CONNECTION, THE PROFOUND POWER AND PSYCHOLOGICAL RESONANCE OF VERBAL BEAUTY OFTEN DIMINISH INTO OBSCURITY, ECLIPSED BY THE CONTINUOUS ASSAULT OF SOUND AND DISTRACTIONS. HOWEVER, SITUATED WITHIN THE LYRICAL PAGES OF **CACHEBOOST SERVER EDITION**, A CHARMING FUNCTION OF FICTIONAL ELEGANCE THAT PULSES WITH NATURAL FEELINGS, LIES AN REMARKABLE JOURNEY WAITING TO BE EMBARKED UPON. PENNED WITH A VIRTUOSO WORDSMITH, THAT ENCHANTING OPUS INSTRUCTIONS VIEWERS ON A MENTAL ODYSSEY, LIGHTLY EXPOSING THE LATENT POSSIBLE AND PROFOUND AFFECT EMBEDDED WITHIN THE COMPLEX WEB OF LANGUAGE. WITHIN THE HEART-WRENCHING EXPANSE OF THE EVOCATIVE ANALYSIS, WE WILL EMBARK UPON AN INTROSPECTIVE EXPLORATION OF THE BOOK IS KEY STYLES, DISSECT THEIR CAPTIVATING WRITING TYPE, AND IMMERSE OURSELVES IN THE INDELIBLE EFFECT IT LEAVES UPON THE DEPTHS OF READERS SOULS.

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