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# Key Word in Context Index and Bibliography on Computer Systems Evaluation Techniques

by

Sarah Crooke
Jack Minker

This bibliography was accumulated under NASA Grant NGR21-002-197 to the Computer Science Center of the University of Maryland.

# INTRODUCTION

This bibliography, in the form of a Key Word in Context Index (KWIC), supercedes a preliminary bibliography on the same subject which was included in the third quarterly report under this grant. Included as input to the KWIC Index are the documents found to be relevant as a result of the literature search conducted under NASA Grant NGR21-002-197. The output consists of two parts: a sort on keywords in the document titles and a bibliography sequenced according to a code word assigned to each title. The bibliography includes title, author(s), and citation.

The documents selected contain information pertinent to the areas of system evaluation, simulation languages, mathematical modeling, and simulation techniques applicable to time-sharing, multiprocessing, and multiprogramming data processing systems.

The documents included in this bibliography have been selected, after a review of numerous journals, primarily from the following sources:

1. KWIC Index of Computing Reviews
2. Communications of the ACM (1959-1969)
3. Journal of the ACM (1960-1969)
4. Proceedings of AFIPS Spring and Fall Computer Conferences (1960-1969)
5. Proceedings of the ACM National Conference (1960-1969)
6. IBM Systems Journal
7. Defense Documentation Center (10/68-11/69)

In addition, two requests were made for special document file searches. The first Search Control No. 013092 resulted in a search of the DDC files for documents relevant to 'System Performance Evaluation Techniques'. The other resulted in a NASA literature search, (Search No. 8602), for documents relevant to 'Performance Evaluation for Processing Systems'. The bibliographies produced in response to these requests have been reviewed. Documents found to be of particular relevance to computer system evaluation have been included in this bibliography.

For a general overview of the work performed and reported in the documents included in this bibliography, see Section 2 of the University of Maryland Technical Report 69-99, entitled "Analysis of Data Processing Systems" by J. Minker, S. Crooke, and J. Yeh.

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|---|---|---|---|
| GLDS67 | OF A MULTIPLE | ACCESS | INFORMATION SYSTEM.=DESIGN THRU SIMULATION |
| COFMC67 | UEUE IN RANDOM | ACCESS | STORAGE.=ON THE MOTION OF AN UNBOUNDED MARKOV Q |
| ROSET64 | SING EQUIPMENT | ACQUISITION | =ANALYTICAL TECHNIQUE FOR AUTOMATIC DATA PROCES |
| ONTS67 | = WITH DYNAMIC | ADDRESS | RELOCATION HARDWARE.=EXPERIENCE USING A TIME-SHARED MULTIPROGRAMMING SYSTE |
| ARPA66 | PROGRAM AND | ADDRESSING | STRUCTURE IN A TIME-SHARING ENVIRONMENT.= |
| GRIC66 | DWARE ORIENTED | ALGOL | LANGUAGE.=HARGOL - A HAR |
| DASA66 | SIMULA - AN | ALGOL | BASED SIMULATION LANGUAGE.= |
| CHUAA65 | AN | ALGOL | LIKE COMPUTER DESIGN LANGUAGE.= |
| SHEDE67 | IN A PARALLEL | ALGORITHM | =EVALUATION OF REDUNDANCY |
| SHEMM67 | ING SCHEDULING | ALGORITHMS | =SOME MATHEMATICAL CONSIDERATIONS OF TIME-SHAR |
| LIVGA66 | TIME-SHARING - | ALGORITHMS | FOR SCHEDULING AND CONTROL OF COMPUTER RESOURCES.=A GENERAL APPROACH TO |
| COFAN68 | O TIME-SHARING | ALGORITHMS | DESIGNED FOR LIMITED SWAPPING.=ANALYSIS OF TW |
| BELSS67 | ED REPLACEMENT | ALGORITHMS | FOR MULTIPROGRAMMING.=BIAS |
| BELSR66 | OF REPLACEMENT | ALGORITHMS | FOR A VIRTUAL STORAGE COMPUTER.=A STUDY |
| AMSE66 | AND SCHEDULING | ALGORITHMS | ON TIME-SHARING SYSTEMS.=A SIMULATION OF THE EFFECTS OF DYNAMIC STORAGE ALLOCA |
| ENSA68 | SCHEDULING AND | ALLOCATING | IN A COMMUNICATION ENVIRONMENT.=SCHEDU |
| PETS68 | DYNAMIC MEMORY | ALLOCATION | =DYNAMI |
| MURPR68 | RESOURCE | ALLOCATION | WITH INTERLOCK PROTECTION IN A MULTI-TASK SYSTEM.= |
| RANDS68 | YNAMIC STORAGE | ALLOCATION | SYSTEMS.=D |
| NIEP68 | PPROACH TO THE | ALLOCATION | OF COMPUTER RESOURCES.=FLEXIBLE PRICING - AN A |
| DEGRA68 | RESOURCE | ALLOCATION | IN MULTIPROCESS COMPUTER SYSTEMS. = |
| COFMU69 | SOURCE | ALLOCATION | =MODEL OF PURE TIME-SHARING DISCIPLINES FOR RE |
| AMSE66 | YNAMIC STORAGE | ALLOCATION | HARDWARE AND SCHEDULING ALGORITHMS ON TIME-SHARING SYSTEMS.=A SIMULATION OF T |
| AVII65 | QUEUEING WITH | ALTERNATING | PRIORITIES.= |
| FIFE68 | | ALTERNATIVES | IN EVALUATION OF COMPUTER SYSTEMS.= |
| RAMA66 | | ANALYTIC | DESIGN OF A DYNAMIC LOOKAHEAD AND PROGRAM SEGMENT - SYSTEM FOR MULTIPROGRAMMED |
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| MCKI69 | A SURVEY OF | ANALYTICAL | TIME-SHARING MODELS.= |
| KLSP66 | MACHINES (SPM) | ANALYZED | WITH A QUEUEING THEORY MODEL.=SEQUENTIAL PROCESSING |
| RAMN66 | ECURSIVE QUEUE | ANALYZER | =R.Q.A.=1, THE R |
| KLAA69 | | ANALYZING | JOB MIX IN MULTIPROGRAMMED COMPUTER SYSTEMS.= |
| HILRT66 | N SYSTEMS - AN | ANNOTATED | BIBLIOGRAPHY (1961-1966).=REAL-TIME INFORMATIO |
| BELSA69 | AN | ANOMALY | IN SPACE-TIME CHARACTERISTICS OF CERTAIN PROGRAMS RUNNING IN A PAGING MACHINE. |
| STAA68 | LATION FOR THE | APOLLO | REAL-TIME OPERATING SYSTEM.=STATISTICS GATHERING AND SIMU |
| MARC68 | Y PRICING WITH | APPLICATION | TO TIME-SHARED COMPUTERS.=PRIORIT |
| PRAC68 | | APPLICATION | OF COST-EFFECTIVENESS ANALYSIS TO EDP SYSTEM SELECTION.= |
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| MOAS67 | AN | APPRAISAL | OF THE ATLAS SUPERVISOR.= |
| CALSP67 | ON: SURVEY AND | APPRAISAL | =SYSTEM PERFORMANCE EVALUATI |
| KARU68 | TWO | APPROACHES | FOR MEASURING THE PERFORMANCE OF TIME-SHARING SYSTEMS.= |
| HACE68 | TURN | AROUND | TIME FOR MESSAGES OF DIFFERING PRIORITIES.= |
| CONSA64 | SYSTEM | ASPECT | SYSTEM/360 MODEL 92.= |
| RUCT63 | AUTOMATIC | ASSIGNMENT | OF COMPUTATIONAL TASKS IN A VARIABLE STRUCTURE COMPUTER.= |
| MARSS66 | THE AUTOMATIC | ASSIGNMENT | AND SEQUENCING OF COMPUTATIONS ON PARALLEL PROCESSOR SYSTEMS.= |
| ESTAA63 | AUTOMATIC | ASSIGNMENT | OF COMPUTATIONS IN A VARIABLE STRUCTURE COMPUTER SYSTEM.= |
| COBHS4 | PRIORITY | ASSIGNMENT | IN WAITING-LINE PROBLEMS.= |
| AOPA63 | COMPUTING LOAD | ASSIGNMENT | IN A MULTIPROCESSOR COMPUTER SYSTEM.=A PROBABILISTIC ANALYSIS OF |
| GUMA67 | PROCESSOR WITH | ASSOCIATIVE | CONTROL.=A MULTI |
| KRTR65 | R POISSON | ASSUMPTIONS | =THE STATIONARY BEHAVIOR OF A TIME-SHARING SYSTEM UNDE |
| MOAS67 | PRAISAL OF THE | ATLAS | SUPERVISOR.=AN AP |
| KLDA67 | ISTRIBUTION OF | ATTAINED | SERVICE IN TIME-SHARED SYSTEMS.=D |
| ESHSC67 | NSTRUMENTATION | AUTOMATON | =SNUPER COMPUTER - A COMPUTER IN I |
| HAVE68 | | AVOIDING | DEADLOCK IN MULTITASKING SYSTEMS.= |
| SACK68 | SHARING VERSUS | BATCH-PROCESSING | THE EXPERIMENTAL EVIDENCE.=TIME- |

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|---|---|---|---|
| GOLDT69 | ME-SHARING AND | BATCH-PROCESSING | AN EXPERIMENTAL COMPARISON OF THEIR VALUES IN A PROBLEM-SOLVING SITUATION.=TI |
| BOND69 | Y MONITOR IN A | BATCH-PROCESSING | ENVIRONMENT WITH REMOTE ENTRY.=INTERACTIVE GRAPHICAL DISPLA |
| HIPB68 | PROGRAM | BEHAVIOR | AND CONTROL IN VIRTUAL STORAGE COMPUTER SYSTEMS.= |
| TOTS65 | ATION INTO THE | BEHAVIOR | OF THE SDC TIME-SHARING SYSTEM.=AN EMPIRICAL INVESTIG |
| KAMM66 | MPUTER SYSTEM | BEHAVIOR | =MARKOVIAN MODELS AND NUMERICAL ANALYSIS OF CO |
| KRTR65 | THE STATIONARY | BEHAVIOR | OF A TIME-SHARING SYSTEM UNDER POISSON ASSUMPTIONS.=THE ST |
| FRIDB68 | THE DYNAMIC | BEHAVIOR | OF PROGRAMS.= |
| DEGMS68 | EL FOR PROGRAM | BEHAVIOR | =THE WORKING SET MOD |
| FINDP66 | YNAMIC PROGRAM | BEHAVIOR | UNDER PAGING.=D |
| DEGSM68 | EL FOR CONSOLE | BEHAVIOR | IN MULTIUSER COMPUTERS.=A STATISTICAL MOD |
| COFVT66 | AL DATA ON THE | BEHAVIOR | OF PROGRAMS IN A PAGING ENVIRONMENT.=FURTHER EXPERIMENT |
| BRAW68 | PROGRAM | BEHAVIOR | IN A PAGING ENVIRONMENT.= |
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| KARU69 | | BENCHMARK | ANALYSIS OF TIME-SHARING SYSTEMS.= |
| JOSAB65 | APPLICATION | BENCHMARKS | THE KEY TO MEANINGFUL COMPUTER EVALUATIONS.= |
| BELSS67 | | BIASED | REPLACEMENT ALGORITHMS FOR MULTIPROGRAMMING.= |
| HILRT66 | - AN ANNOTATED | BIBLIOGRAPHY | (1961-1966).=REAL-TIME INFORMATION SYSTEMS |
| BUCH68 | A SELECTED | BIBLIOGRAPHY | ON COMPUTER SYSTEM PERFORMANCE EVALUATION.= |
| COFBN67 | NG PERFORMANCE | BOUNDS | FOR MODULAR MEMORY SYSTEMS.=A SIMPLE PROBABILITY MODEL YIELDI |
| AVIH64 | ON SUBJECT TO | BREAKDOWN | =SOME QUEUEING PROBLEMS WITH THE SERVICE STATI |
| KLA067 | OPTIMUM | BRIBING | FOR QUEUE POSITION.= |
| BISM68 | SYSTEMS: MODEL | BUILDING | SIMULATION, AND EVALUATION.=SYSTEM |
| LAUBC67 | | BULK | CORE IN A 360/67 TIME-SHARING SYSTEM.= |
| ADAB68 | N EXPERIMENTAL | CAI | OPERATING SYSTEM.=EXPERIENCE WITH A |
| STIM68 | ETHODOLOGY FOR | CALCULATING | AND OPTIMIZING REAL-TIME SYSTEM PERFORMANCE.=A M |
| MARSQ69 | DYNAMIC | CALCULATION | OF DISPATCHING PRIORITIES UNDER OS/360 MVT.= |
| BAGTT60 | G A MEASURE OF | CAPABILITY | OF A DATA PROCESSING SYSTEM).=TWO THINK PIECES: (ESTABLISHIN |
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| GURSR68 | ATION HANDLING | CENTERS | =STORAGE REQUIREMENTS FOR INFORM |
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| EIMQ68 | TI-QUEUES WITH | CHANGEOVER | TIMES.=MUL |
| KNCC66 | | CHANGES | IN COMPUTER PERFORMANCE.= |
| CHACC65 | COMPUTER | CHANNEL | INTERFERENCE ANALYSIS.= |
| OPMS64 | NT OF SOFTWARE | CHARACTERISTICS | =MEASUREME |
| BRYJP67 | THE DYNAMIC | CHARACTERISTICS | OF COMPUTER PROGRAMS.= |
| BELSA69 | IN SPACE-TIME | CHARACTERISTICS | OF CERTAIN PROGRAMS RUNNING IN A PAGING MACHINE.=AN ANOMALY |
| LEHCC63 | THE | CHECKING | OF COMPUTER LOGIC BY SIMULATION ON A COMPUTER.= |
| KLCL65 | LAW FOR A WIDE | CLASS | OF QUEUEING DISCIPLINES.=A CONSERVATION |
| WALE66 | TIPROCESSOR IN | COMMAND | AND CONTROL.=UTILIZATION OF A MUL |
| SCHWW68 | DIGITAL | COMMUNICATION | SYSTEMS.=EXTREMAL STATISTICS IN COMPUTER SIMULATION OF |
| ENSA58 | LLOCATING IN A | COMMUNICATION | ENVIRONMENT.=SCHEDULING AND A |
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| SACKE68 | MENTAL STUDIES | COMPARING | ONLINE AND OFFLINE PROGRAMMING PERFORMANCE.=EXPLORATORY EXPERI |
| SMMR68 | A REVIEW AND | COMPARISON | OF CERTAIN METHODS OF COMPUTER PERFORMANCE EVALUATION.= |
| SMMT67 | A | COMPARISON | OF BATCH PROCESSING AND INSTANT TURNAROUND.= |
| SCHAB67 | N EXPERIMENTAL | COMPARISON | OF TIME-SHARING AND BATCH PROCESSING.=A |
| TEICS66 | TECHNIQUE AND | COMPARISON | OF LANGUAGES.=COMPUTER SIMULATION - DISCUSSION OF |
| GOLDT69 | ENTAL | COMPARISON | OF THEIR VALUES IN A PROBLEM-SOLVING SITUATION.=TIME-SHARING AND BATCH-PROCESS |
| GAVE63 | A | COMPARISON | OF QUEUE DISCIPLINES WHEN SERVICE ORIENTATION TIMES OCCUR.= |
| GOSSC62 | STANDARDIZED | COMPARISONS | OF COMPUTER PERFORMANCE .= |
| GREOC65 | ON-LINE | COMPUTATION | AND SIMULATION OPS-3.= |
| DESMC64 | A MULTIUSER | COMPUTATION | FACILITY FOR EDUCATION AND RESEARCH.= |
| RUCT63 | ASSIGNMENT OF | COMPUTATIONAL | TASKS IN A VARIABLE STRUCTURE COMPUTER.=AUTOMATIC |
| WYMP67 | IME | COMPUTATIONAL | SYSTEM.=MANAGEMENT OF PERIODIC OPERATIONS IN A REAL-T |

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

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REIPC67 L FOR PARALLEL COMPUTATIONS =A STUDY OF A MODE
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MARSS66 SEQUENCING OF COMPUTATIONS ON PARALLEL PROCESSOR SYSTEMS.=THE AUTOMATIC ASSIGNMENT AND
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KOEC058 CYCLIC QUEUES.=

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HAVE68          AVOIDING    DEADLOCK      IN MULTITASKING SYSTEMS.=
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MERSD68        SIMULATION   DESIGN        OF A MULTIPROCESSING SYSTEM.=
HUTSS65     MPUTER SYSTEMS  DESIGN        AND ANALYSIS THROUGH SIMULATION.=CO
DESSD65     GMENTATION AND  DESIGN        OF MULTIPROGRAMMED COMPUTER SYSTEMS.=SE
FUCHE68     RATIONS IN THE  DESIGN        OF A MULTIPLE COMPUTER SYSTEM WITH EXTENDED CORE STORAGE.=CONSIDE
BEND67       FUNCTION AND   DESIGN        OF DOS/360 AND TOS/360.=
CHUA65       LIKE COMPUTER  DESIGN        LANGUAGE.=AN ALGOL
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SMDC62                 A    DIRECTLY      COUPLED MULTIPROCESSING SYSTEM.=
SCHRT66     ROCESSING TIME  DISCIPLINE    =THE QUEUE M/G/1 WITH THE SHORTEST REMAINING P
KLEI64      EPENDENT QUEUE  DISCIPLINE    =A DELAY D
ADAI67      ESUME PRIORITY  DISCIPLINE    =A TIME-SHARING QUEUE WITH PREEMPTIVE R
GAOP64       PRIORITY TYPE  DISCIPLINES   IN QUEUEING.=ON
KLCL65      SS OF QUEUEING  DISCIPLINES   =A CONSERVATION LAW FOR A WIDE CLA
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COFCP68           PRIORITY  DISCIPLINES   =AN ANALYSIS OF COMPUTER OPERATIONS UNDER RUNNING-TIME
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CHEN69                   TRACE      DRIVEN          SYSTEM MODELING.=
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@FIN

RUNID: 7273 ACCOUNT: 001-01-165 PROJECT: CROOKE

LOAD 2711 3/3 SORT -1 7273

LOAD 2623 3/4 FILEY -1 7273

SERVICE 3/3

SERVICE 3/3

SERVICE 3/3

SERVICE 3/3

END OF SORT: TIME PER RECORD =177.6 MSEC.

INPUT RECORD COUNT IS : 1228

OUTPUT RECORD COUNT IS : 1228

BIAS IS 1.4

END OF SORT: TIME PER RECORD =230.2 MSEC.

INPUT RECORD COUNT IS : 348

OUTPUT RECORD COUNT IS : 348

BIAS IS IN SEQ

TIME: 00:00:11.968 IN: 1213 OUT: 0 PAGES: 44

INITIATION TIME: 09:35:36-DEC 1,1969

TERMINATION TIME: 09:48:30-DEC 1,1969