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Edward Aftandilian and Samuel Guyer, 2009. GC assertions: Using the garbage collector to check heap properties. In PLDI 2009 [PLDI 20092009], pages 235–244.


Ole Agesen and Alex Garthwaite. Efficient object sampling via weak references. In Chambers and Hosking [Chambers and Hosking2000], pages 121–136.


[Amsaleg et al., 1995b] Laurent Amsaleg, Michael Franklin, and Olivier Gruber. Efficient incremental garbage collection for client–server object database systems. In Twenty-first International Conference on Very Large Databases (VLDB95), Zurich, Switzerland, September 1995.


[Andreasson et al., 2002] Eva Andreasson, Frank Hoffmann, and Olof Lindholm. To collect or not to collect? machine learning for memory management. In JVM 2002 [JVM 20022002].


[Brecht et al., 2001] Tim Brecht, Eshrat Arjomandi, Chang Li, and Hang Pham. Controlling garbage collection and heap growth to reduce the execution time of Java applications. In OOPSLA 2001 [OOPSLA 20012001].


[Chang and Kuo, 2002] Li-Pin Chang and Tei-Wei Kuo. A real-time garbage collection mechanism for flash-memory storage systems in embedded systems. In RTCSA 2002 [RTCSA 20022002].


[Click et al., 2005] Cliff Click, Gil Tene, and Michael Wolf. The Pauseless GC algorithm. In Hind and Vitek [Hind and Vitek2005], pages 46–56.


[Curial et al., 2008] Stephen Curial, Peng Zhao, Jose Nelson Amaral, Yaoqing Gao, Shimin Cui, Raul Silvera, and Roch Archambault. Memory pooling assisted data splitting (MPADS). In Jones and Blackburn [Jones and Blackburn 2008], pages 101–110.


[Dickman and Wilson, 1997] Peter Dickman and Paul R. Wilson, editors. OOPSLA Workshop on Garbage Collection and Memory Management, October 1997.

[Dickman, 1991] Peter Dickman. Effective load balancing in a distributed object-support operating system. In Cabrera et al. [Cabrera et al., 1991].


[Dillig et al., 2008] Isil Dillig, Thomas Dillig, Eran Yahav, and Satish Chandra. The CLOSER: Automating resource management in Java. In Jones and Blackburn [Jones and Blackburn2008], pages 1–10.


[Edwards, Date unknown] Daniel J. Edwards. Lisp II garbage collector. AI Memo 19, MIT AI Laboratory, Date unknown.


[Fink and Qian, 2003] Stephen J. Fink and Feng Qian. Design, implementation and evaluation of adaptive recompilation with on-stack replacement. In CGO 2003 [CGO 20032003], pages 241–252.


41


[Henglein et al., 2001] Fritz Henglein, Henning Makholm, and H. Niss. A direct approach to control-
flow sensitive region-based memory management. In International Conference on Principles and

[Hennessey, 1993] Wade Hennessey. Real-time garbage collection in a multimedia programming lan-
guage. In Moss et al. [Moss et al.1993].


[Henriksson, 1994] Roger Henriksson. Scheduling real-time garbage collection. In Proceedings of NW-


[Henriksson, 1997] Roger Henriksson. Predictable automatic memory management for embedded sys-


on Embedded Software (EMSOFT), volume 2211 of Lecture Notes in Computer Science, Tahoe City,

[Herlihy and Moss, 1990] Maurice Herlihy and J. Elliot B Moss. Non-blocking garbage collection for multi-

[Herlihy and Moss, 1991] Maurice P. Herlihy and J. Elliot B. Moss. Lock-free garbage collection for multi-

[Herlihy and Moss, 1992] Maurice Herlihy and J. Elliot B Moss. Lock-free garbage collection for multi-

support for lock-free data structures. In ISCA 1993 [ISCA 19931993], pages 289–300.

Morgan Kaufman, April 2008.

[Herlihy and Wing, 1990] Maurice Herlihy and Jeannette M. Wing. Linearizability: A correctness con-
tdition for concurrent objects. ACM Transactions on Programming Languages and Systems, 12(3):463–
492, 1990.

[Herlihy et al., 2002a] Maurice P. Herlihy, Victor Luchangco, and Mark Moir. The repeat offender prob-
lem: A mechanism for supporting dynamic-sized lock-free data structures. In Proceedings of the 16th

[Herlihy et al., 2002b] Maurice P. Herlihy, Paul Martin, Victor Luchangco, and Mark Moir. Dynamic-
sized and lock-free data structures. Technical Report TR–2002–110, Sun Microsystems Laboratories,
June 2002.

[Hertz and Berger, 2004] Matthew Hertz and Emery Berger. Automatic vs. explicit memory manage-
ment: Settling the performance debate. Technical Report CS TR-04-17, University of Massachusetts,
2004.

[Hertz and Berger, 2005] Matthew Hertz and Emery Berger. Quantifying the performance of garbage
collection vs. explicit memory management. In OOPSLA 2005 [OOPSLA 20052005].

[Hertz et al., 2002a] Matthew Hertz, Steve M. Blackburn, K. S. McKinley, J. Elliot B. Moss, and Darko
Stefanović. Error-free garbage collection traces: How to cheat and not get caught. In Proceedings of
the International Conference on Measurements and Modeling of Computer Systems, Marina Del Rey,
CA, June 2002.


[Hicks, 1993] James Hicks. Experiences with compiler-directed storage reclamation. In Hughes [Hughes1993].


55


Inoue et al., 2009  Hiroshi Inoue, Hideaki Komatsu, and Toshio Nakatani. A study of memory management for web-based applications on multicore processors. In PLDI 2009 [PLDI20092009].


[Jones and Ryder, 2008] Richard Jones and Chris Ryder. A study of Java object demographics. In Jones and Blackburn [Jones and Blackburn2008], pages 121–130.


Jung and Yi, 2008] Yungbum Jung and Kwangkeun Yi. Practical memory leak detector based on parameterized procedural summaries. In Jones and Blackburn [Jones and Blackburn2008], pages 131–140.


[Kurihara et al., 1990] Satoshi Kurihara, Mikio Inari, Norihisa Doi, Kazuki Yasumatsu, and Takemi Yamazaki. SPICE collector: The run-time garbage collector for Smalltalk-80 programs translated into C. In Jul and Juul [Jul and Juul1990].


76


[Moss et al., 1993] Eliot Moss, Paul R. Wilson, and Benjamin Zorn, editors. OOPSLA Workshop on Garbage Collection in Object-Oriented Systems, October 1993.


82


[Piumarta et al., 1995] Ian Piumarta, Marc Shapiro, and Paulo Ferreira. Garbage collection in distributed object systems. In Workshop on Reliability and Scalability in Distributed Object Systems, OOPSLA’95, Austin, TX, October 1995.


[Pizlo et al., 2008a] Filip Pizlo, Erez Petrank, and Bjarne Steensgaard. Path specialization: Reducing phased execution overheads. In Jones and Blackburn [Jones and Blackburn2008], pages 81–90.


[Plainfose and Shapiro, 1992] David Plainfosse and Marc Shapiro. A distributed GC in an object-support operating system. In Cabrera et al. [Cabrera et al.1992].


[Ricther and Shapiro, 2001] Nicolas Richer and Marc Shapiro. The memory behaviour of the WWW, or the WWW considered as a persistent store. In Kirby et al. [Kirby et al.2001], pages 136–146.


[Sartor et al., 2008a] Jennifer B. Sartor, Martin Hirzel, and Kathryn S. McKinley. No bit left behind: Limits of heap data compression. In Jones and Blackburn [Jones and Blackburn2008], pages 111–120.


[Shuf et al., 2002b] Yefim Shuf, Manish Gupta, Hubertus Franke, Andrew Appel, and Jaswinder Pal Singh. Creating and preserving locality of Java applications at allocation and garbage collection times. In *OOPSLA 2002* [OOPSLA 20022002].


[SPIN, ] The SPIN operating system. A collection of papers available on the WWW.


[Spoonhower et al., 2006] Daniel Spoonhower, Joshua Auerbach, David F. Bacon, Perry Cheng, and David Grove. Eventrons: A safe programming construct for high-frequency hard real-time applications. In Schwartzbach and Ball [Schwartzbach and Ball2006], pages 283–294.


[Tel and Matern, 1991] Gerard Tel and Friedemann Mattern. The derivation of distributed termination detection algorithms from garbage collection schemes — (extended abstract). In Aarts et al. [Aarts and others1991].


[Torp-Smith et al., 2008] Noah Torp-Smith, Lars Birkedal, and John C. Reynolds. Local reasoning about a copying garbage collector. ACM Transactions on Programming Languages and Systems, 30(4), July 2008.


Paul R. Wilson and Barry Hayes, editors. *OOPSLA Workshop on Garbage Collection in Object-Oriented Systems*, October 1991.


