

@inproceedings{Vestal2007,

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author = {Steve Vestal},
book = {Proceedings of the 28th IEEE International Real-Time Systems
Symposium},
title = {{Preemptive Scheduling of Multi-criticality Systems with Varying
Degrees of Execution Time Assurance}},
pages={239-243},
address = {Tucson, Arizona, USA},
date={2007-12-03/2007-12-06}
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@inproceedings{Lakshmanan2011,

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author={K. Lakshmanan and D. de Niz and R. Rajkumar},
booktitle={Proceedings of the IEEE RTAS},
title={{Mixed-Criticality Task Synchronization in Zero-Slack Scheduling}},
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pages={47-56},
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@article{Zhao2014,

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author={Q. Zhao and Z. Gu and H. Zeng},
journal={Embedded Systems Letters},
title={{A Resource Synchronization Protocol for Certifiable Mixed
Criticality Scheduling}},
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pages={8-11},
month=mar}
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@inproceedings{Brandenburg2014,

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author={B.B. Brandenburg},
booktitle={Proceedings of the IEEE Real-Time Systems Symposium},
title={{A Synchronous IPC Protocol for Predicatable Access to Shared
Resources in Mixed-Criticality Systems}},
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@article{Zhao2015,

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author={Q. Zhao and Z. Gu and H. Zeng},
journal={ACM Transactions on Embedded Computing Systems (TECS)},
title={{Resource Synchronization and Preemption Thresholds Within Mixed-
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year={2015},
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Volume = {14},  
Issue = {4},  
pages = {81}}
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@inproceedings{Baker1990, IDS={SRP},
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Author = {T. P. Baker},  
Booktitle = {Proceedings of the 11th IEEE Real-Time Systems Symposium  
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Month = Dec,  
Pages = {191-200},  
Title = {{A Stack-Based Resource Allocation Policy for Real-Time  
Processes}},  
Year = {1990}}
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booktitle={Proceedings of the 1st Workshop on Real-Time Mixed Criticality  
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title={{The Application of the Original Priority Ceiling Protocol to Mixed  
Criticality Systems}},  
year={2013},  
pages={7-11}}
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@article{Sha1990, IDS={PCP, PIP},
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Author = {L. Sha and R. Rajkumar and J. P. Lehoczky},  
Journal = {IEEE Transactions on Computers},  
Month = Sep,  
Number = {9},  
Pages = {1175-1185},  
Title = {{Priority Inheritance Protocols: An Approach to Real-Time  
Synchronization}},  
Volume = {39},  
Year = {1990}}
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@inproceedings{Gratia2014,
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author={R. Gratia and T. Robert and L. Pautet},  
booktitle={Proceedings of the 8th Junior Researcher Workshop on Real-Time  
Computing, RTNS},  
title={{Adaptation of RUN to Mixed-Criticality Systems}},  
year={2014},  
month=aug}
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  title={{Generalized Mixed-Criticality Scheduling Based on RUN}},
  year={2015},
  pages={267-276},
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@inproceedings{Regnier2011,

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  booktitle={Proceedings of the 32nd IEEE Real-Time Systems Symposium},
  title={{RUN: Optimal Multiprocessor Real-Time Scheduling Via Reduction to Uniprocessor}},
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  pages={104-115}}
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@inproceedings{Al-Bayati2015,

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  author={Z. Al-Bayati and Q. Zhao and A. Youssef and H. Zeng and Z. Gu},
  booktitle={20th Asia and South Pacific Design Automation Conference},
  title={{Enhanced Partitioned Scheduling of Mixed-Criticality Systems on Multicore Platforms}},
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  pages={630-635},
  month=jan}
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@inproceedings{XuBurns2015,

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  booktitle={Proceedings of the 23rd International Conference on Real-Time Networks and Systems (RTNS)},
  title={{Semi-partitioned Model for Dual-core Mixed Criticality System}},
  year={2015},
  pages={257-266},
  month=nov}
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@inproceedings{LiBaruah2012,

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  author={H. Li and S.K. Baruah},
  booktitle={In Proceedings of the ECRTS. IEEE Computer Society Press},
  title={{Global Mixed-Criticality Scheduling on Multiprocessors}},
  year={2012},
  pages={99-107},
  month=dec}
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@article{DavisBurns2011, IDS={MPSurvey}, author = {Davis, Robert I. and Burns, Alan}, title = {A Survey of Hard Real-Time Scheduling for Multiprocessor Systems (Version 5, last updated March 6, 2021)}, year = {2011}, issue_date = {October 2011}, volume = {43}, number = {4}, journal = {ACM Computing Surveys}, month = {oct}, articleno = {35}, numpages = {44} }

@article{GuoBaruah2014,

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title={{Implementing Mixed-Criticality Systems Upon a Preemptive Varying-Speed Processor}},
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Volume = {1},
Issue = {2},
pages={3-103:19},
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author={S. Baruah and Z. Guo},
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journal={Journal of Real-Time Systems},
title={{Implementing Mixed-Criticality Synchronous Reactive Programs Upon
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Issue = {6},
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month=aug}
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journal={Journal of Real-Time Systems},
title={{Bounding and Shaping the Demand of Generalized Mixed-Criticality
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Volume = {50},
Issue = {1},
year={2014},
pages={48-86},
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title = {{Certification-Cognizant Time-Triggered Scheduling of Mixed-
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pages={3- -12},
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  pages={60-74},
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  booktitle={Proceedings of the 2013 Conference on Design, Automation and
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  year={2013},
  pages={147-152},
  month=mar}
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  pages={352-357}
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pages={135-144},
month=jul}
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@inproceedings{Baruah2012b,

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IDS={EDF-VD-Optimal},
author = {Sanjoy Baruah and V. Bonifaci and G. D\nc{' }Angelo and H. Li and A. Marchetti-Spaccamela and S. van der Ster and L. Stougie},
booktitle = {Proceedings of the 24th Euromicro Conference on Real-Time Systems (ECRTS)},
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year = {2012}
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author={S. {Baruah} and V. {Bonifaci} and G. {D\{'a}ngelo} and A. {Marchetti-Spaccamela} and S. {van der Ster} and L. {Stougie}},
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author={S. {Baruah} and V. {Bonifaci} and G. {D\{'a}ngelo} and H. {Li} and A. {Marchetti-Spaccamela} and S. {Van Der Ster} and L. {Stougie}},
journal={Journal of the ACM},
title={{Preemptive Uniprocessor Scheduling of Mixed-Criticality Sporadic Task Systems}},
Volume = {62},
Issue = {2},
Number = {14},
year={2015},
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author = {Bate, Iain and Burns, Alan and Davis, Robert I.},
journal = {IEEE Transactions on Software Engineering},
title = {{An Enhanced Bailout Protocol for Mixed Criticality Embedded Software}},
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number = {4},  
pages = {298--320},  
volume = {43},  
year = {2017}
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@inproceedings{Davis2022, IDS={C-AMC}, author = {Davis, Robert Ian and Burns, Alan and Bate,  
Iain}, title = {Compensating Adaptive Mixed Criticality Scheduling}, year = {2022}, booktitle =  
{Proceedings of the 30th International Conference on Real-Time Networks and Systems (RTNS)},  
pages = {81-93}, location = {Paris, France} }
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author={H. {Huang} and C. {Gill} and C. {Lu}},  
booktitle={Proceedings of the 18th IEEE RTAS},  
title={{Implementation and Evaluation of Mixed-Criticality Scheduling  
Approaches for Periodic Tasks}},  
year={2012},  
pages={23-32},  
month=apr}
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author={D. {de Niz} and L. {Wrage} and A. {Rowe} and R. {Rajkumar}},  
booktitle={Proceedings of the 19th IEEE RTCSA},  
title={{Utility-Based Resource Overbooking for Cyber-Physical Systems}},  
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pages={217-226},  
month=aug}
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author={D. {de Niz} and L. T. X. {Phan}},  
booktitle={Proceedings of the 19th IEEE RTAS},  
title={{Partitioned Scheduling of Multi-Modal Mixed-Criticality Real-Time  
Systems on Multiprocessor Platforms}},  
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pages={111-122},  
month=apr}
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@inproceedings{Neukirchner2013a,
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author = {Neukirchner, Moritz and Axer, Philip and Michaels, Tobias and  
Ernst, Rolf},  
title = {{Monitoring of Workload Arrival Functions for Mixed-Criticality  
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booktitle = {Proceedings of the 34th IEEE Real-Time Systems Symposium  
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pages = {88--96}}
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author={M. {Neukirchner} and K. {Lampka} and S. {Quinton} and R. {Ernst}},  
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pages={1-10},  
month=sep}
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author={B. {Hu} and K. {Huang} and {Pengcheng Huang} and L. {Thiele} and A.  
{Knoll}},  
booktitle={Proceedings of the 2016 International Conference on Embedded  
Software},  
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author={Marcus V\{"o}lp and Micheal Roitzsch and Hermann H\{"a}rtig},  
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title={{Towards an Interpretation of Mixed Criticality for Optimistic  
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booktitle={Proceedings of the 37th IEEE Real-Time Systems Symposium (RTSS)},  
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Criticality Systems}},  
year={2016},  
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title = {{Generalizing Fixed-priority Scheduling for Better Schedulability  
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volume = {116},  
number = {8},  
month = aug,  
year = {2016},  
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pages={464-469},  
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author = {Huang, Huang-Ming and Gill, Christopher and Lu, Chenyang},  
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Approaches for Sporadic Tasks}},  
journal = {ACM Transactions on Embedded Computing Systems},  
volume = {13},  
number = {4s},  
month = apr,  
year = {2014},  
articleno = {126}}
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booktitle={Proceedings of the 20th Euromicro Conference on Real-Time
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pages={147--155},
address={Prague, Czech},
year={2008},
month={July}
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and Real-Time Computing Systems and Applications (RTCSA)},
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Title = {{PT-AMC: Integrating Preemption Thresholds into Mixed-Criticality
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booktitle={Dependable Computing for Critical Applications 7},
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month={Jan}}
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author={S. K. {Baruah} and A. {Burns} and R. I. {Davis}},
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year={2011},
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@article{Liu1973,
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Author = {C. L. Liu and James W. Layland},  
Journal = {Journal of the Association for Computing Machinery (JACM)},  
Month = jan,  
Number = {1},  
Pages = {46-61},  
Title = {{Scheduling Algorithms for Multiprogramming in a Hard Real-Time  
Environment}},  
Volume = {20},  
Year = {1973}
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@misc{Burns2022,
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author = {Alan Burns and Robert I. Davis},  
title = {{Mixed Criticality Systems - A Review (13th Edition)}},  
howpublished={\url{https://www-users.york.ac.uk/~ab38/review.pdf}},  
month= feb,  
year = {2022}
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@article{Burns2017, IDS={TheSurvey},
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author = {Alan Burns and Robert I. Davis},  
journal = {ACM Transactions on Embedded Computing Systems},  
title = {{A Survey of Research into Mixed Criticality Systems}},  
volume = {50},  
number={6, Article 82},  
pages={1140--1152},  
month= dec,  
year = {2017}
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@book{Liu2000, author = {Liu, Jane W. S. W.},
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title = {{Real-Time Systems}},  
year = {2000},  
isbn = {0130996513},  
edition = {1st},  
publisher = {Prentice Hall PTR},  
address = {Upper Saddle River, NJ, USA}}
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@phdthesis{Mok1983,

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Author = {A. K. Mok},
School = {MIT},
Title = {{Fundamental Design Problems for the Hard Real-Time Environment}},
Type = {{Ph.D. Dissertation}},
Year = {1983}}
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@article{Joseph1986,

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Author = {M. Joseph and P. Pandya},
Title = {{Finding Response Times in a Real-Time System}},
Journal = {Computer Journal},
Volume = {29},
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Pages = {390-395},
Year = {1986}}
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author = {Dorin, Fran\c{c}ois and Richard, Pascal and Richard, Micha\{e}l
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volume = {46},
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title = {{Fixed-Priority Scheduling of Dual-criticality Systems}},
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Networks and Systems},
year = {2013},
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pages = {173--181}}
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@inproceedings{FlemingBurns2013,
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author = {Lui Sha and Lehoczky, {John P.} and Ragunathan Rajkumar},  
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IDS={OPA},  
author = {Neil C. Audsley},  
institution = {Department of Computer Science, University of York},  
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title = {{Optimal Priority Assignment and Feasibility of Static Priority  
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year = {1991}}
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booktitle = {Proceedings of the 2010 IEEE Real-Time Technology and  
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title = {{Towards the Design of Certifiable Mixed-Criticality Systems}},  
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Author = {S.K. Baruah and V. Bonifaci and G. D\nc{' }Angelo and H. Li and A.  
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