Cheat Sheet for Fault-Tolerant Systems

ByteByteGo

- Fault tolerance is the ability of a system to continue operating properly in the event of the failure of some of its components.
- It ensures that a system can tolerate faults (errors, defects, or unexpected issues) and continue to function without significant disruption.

Replication
creating multiple copies of data or services

Architecture
Use Case

Apache Cassandra

Redundancy
having additional components or systems that can take over in case of a failure

Active-Active

failover

Active-Passive

RAID 0 (Stripping)

RAID 1 (Mirroring)

Disk 0   Disk 1   Disk 0   Disk 1

Load Balancing
distributes incoming network traffic across multiple servers

Alice

Bob

Load Balancer

Service A
Service B
Service C

Failover
automatically switch to a standby system when the primary one fails

Web-Applications

End Users

System Monitoring

Failover

Primary Servers

Redundant Server   Secondary Server

AWS Region

Graceful Degradation
ensures that a system continues to operate at reduced functionality

Configuration Center

Order Service 1   Order Service 2   Order Service 3

Disables non-essential features in web applications

Monitoring & Alerting
continuously monitor the system's health and performance

Service Discovery

Application Client Library

Pull Metrics

Exporter

Prometheus Server

1st Party Application

Alertmanager

OpsGenie

PagerDuty

Grafana   Data Visualization

Fault Tolerant Distributed Systems Distributed

Barbara Simons,Alfred Spector

Fault Tolerant Distributed Systems Distributed:

Fault-Tolerant Distributed Computing Barbara Simons,Alfred Spector,1990-11-16 The goal of the Asilomar Workshop on Fault Tolerant Distributed Computing held March 17 19 1986 was to facilitate interaction between theoreticians and practitioners by inviting speakers and choosing topics so as to present a broad overview of the field This volume contains 22 papers stemming from the workshop most of them revised and rewritten presenting research results in distributed systems and fault tolerant architectures and systems The volume should be of use to students researchers and developers

Fault-Tolerant Parallel and Distributed Systems Dimiter R Avresky,David R Kaeli,1998-01-01 **Understanding fault-tolerant distributed systems** Cristian Flaviu,1990 **Fault-Tolerant Message-Passing Distributed Systems** Michel Raynal,2018-09-08 This book presents the most important fault tolerant distributed programming abstractions and their associated distributed algorithms in particular in terms of reliable communication and agreement which lie at the heart of nearly all distributed applications These programming abstractions distributed objects or services allow software designers and programmers to cope with asynchrony and the most important types of failures such as process crashes message losses and malicious behaviors of computing entities widely known under the term Byzantine fault tolerance The author introduces these notions in an incremental manner starting from a clear specification followed by algorithms which are first described intuitively and then proved correct The book also presents impossibility results in classic distributed computing models along with strategies mainly failure detectors and randomization that allow us to enrich these models In this sense the book constitutes an introduction to the science of distributed computing with applications in all domains of distributed systems such as cloud computing and blockchains Each chapter comes with exercises and bibliographic notes to help the reader approach understand and master the fascinating field of fault tolerant distributed computing **Developing Fault-tolerant Distributed Systems** Mario R. Barbacci,Dennis L. Doubleday,Charles B. Weinstock,Michael J. Gardner,Carnegie-Mellon University. Software Engineeirng Institute,Westinghouse Defense and Electronic Systems Center,United States. Department of Defense,1988 This paper describes the fault tolerant features of Durra a computer language designed to support the development of distributed large grained concurrent applications running on heterogeneous machine networks *Structural Failure Models for Fault-Tolerant Distributed Computing* Timo Warns,2011-01-28 Timo Warns has developed tractable fault models that while being non probabilistic are accurate for dependent and propagating faults Using seminal problems such as consensus and constructing coteries he demonstrates how the new models can be used to design and evaluate effective and efficient means of fault tolerance **Performance and Dependability of Fault-tolerant Distributed Systems** Andreas Brenner,1996 *Scientific and Technical Aerospace Reports* ,1989 *Algorithms for Fault Tolerant Distributed Systems* ,1989 Responsive Computer Systems Hermann Kopetz,Yoshiaki Kakuda,2012-12-06 For the second time the International Workshop on Responsive Com puter Systems has

brought together a group of international experts from the fields of real time computing distributed computing and fault tolerant systems The two day workshop met at the splendid facilities at the KDD Research and Development Laboratories at Kamifukuoka Saitama in Japan on October 1 and 2 1992 The program included a keynote address a panel discussion and in addition to the opening and closing session six sessions of submitted presentations The keynote address The Concepts and Technologies of Depend able and Real time Computer Systems for Shinkansen Train Control covered the architecture of the computer control system behind a very responsive i e timely and reliable transport system the Shinkansen Train It has been fascinating to listen to the operational experience with a large fault tolerant computer application What are the Key Paradigms in the Integration of Timeliness and Reliability was the topic of the lively panel discussion Once again the pro s and con s of the time triggered versus the event triggered paradigm in the design of a real time systems were discussed The eighteen submitted presentations covered diverse topics about important issues in the design of responsive systems and a session on progress reports about leading edge research projects Lively discussions characterized both days of the meeting This volume contains the revised presentations that incorporate some of the discussions that occurred during the meeting

SOFSEM 2001: Theory and Practice of Informatics Leszek Pacholski,Peter Ruzicka,2001-11-07 This book constitutes the refereed proceedings of the 28th Conference on Current Trends in Theory and Practice of Informatics SOFSEM 2001 held in Piestany Slovak Republic in November December 2001 Teh volume presents 12 invited lectures and one keynote paper by leading researchers together with 18 revised full research papers selected from 46 submissions The papers span the whole range of informatics with emphasis on trends in informatics enabling technologies for global computing and practical systems engineering   **A Front-end Process for Fault Tolerant Distributed Systems** Patanjali Bhatt,1991

On the Relative Power of Shared Objects in Fault-tolerant Distributed Systems Wai Kau Lo,1997 A fundamental question in distributed computing is to determine whether a given set of base shared object types can be used to implement a new type In this thesis we study this problem in a fault tolerant setting where implementations must work even if some of the processes that share the objects may crash An implementation is t resilient if it tolerates the crash of t processes it is wait free if it is n 1 resilient where n is the number of processes This thesis makes two contributions The first concerns the classification of shared object types according to their ability to support wait free implementations A wait free hierarchy assigns object types to levels in 1 2 such that using only objects of any type assigned to level n in conjunction with registers we can implement an object of any type in a wait free manner in a system of n processes Such a hierarchy is robust if in a system of n processes it is not possible to implement objects of types at level n in a wait free manner using any number and combination of objects of types that are below level n We show that if nondeterministic types are allowed then the only robust wait free hierarchy is the trivial one which lumps all types into level one One important and useful object type is consensus because consensus objects and registers alone can be used to implement objects of any type The second

contribution of the thesis concerns the ability of object types to support one resilient implementations of the type consensus Specifically we study the relationship between the one resilient implementability of consensus objects for n processes and that for n 1 processes for every n ge 3 On the one hand the following is shown for n 3 there exists a deterministic type that can be used to implement a one resilient consensus object for three but not two processes On the other hand for every n ge 4 we show that given any set cal B of object types there is a one resilient implementation of a consensus object for n processes using cal B if and only if there is a one resilient implementation of a consensus object for n 1 processes using cal B

Distributed Algorithms ,1995 **Government Reports Announcements & Index** ,1988 Proceedings of the 18th IEEE Symposium on Reliable Distributed Systems ,1999 Papers from an October 1999 symposium present the latest research on facets of reliable distributed systems including mobile computing distributed algorithms formal methods replication techniques scalability failure analysis system support logging and checkpointing and CORBA systems Novel techniques are proposed design paradigms are explored and critical validation issues are addressed Specific topics include diffusing updates in a Byzantine environment optimistic recovery in multi threaded distributed systems and resolving distributed deadlocks in the OR request model Lacks a subject index Annotation copyrighted by Book News Inc Portland OR **Communication and Agreement Abstractions for Fault-Tolerant Asynchronous Distributed Systems** Michel Raynal,2010-06-06 Understanding distributed computing is not an easy task This is due to the many facets of uncertainty one has to cope with and master in order to produce correct distributed software Considering the uncertainty created by asynchrony and process crash failures in the context of message passing systems the book focuses on the main abstractions that one has to understand and master in order to be able to produce software with guaranteed properties These fundamental abstractions are communication abstractions that allow the processes to communicate consistently namely the register abstraction and the reliable broadcast abstraction and the consensus agreement abstractions that allows them to cooperate despite failures As they give a precise meaning to the words communicate and agree despite asynchrony and failures these abstractions allow distributed programs to be designed with properties that can be stated and proved Impossibility results are associated with these abstractions Hence in order to circumvent these impossibilities the book relies on the failure detector approach and consequently that approach to fault tolerance is central to the book Table of Contents List of Figures The Atomic Register Abstraction Implementing an Atomic Register in a Crash Prone Asynchronous System The Uniform Reliable Broadcast Abstraction Uniform Reliable Broadcast Abstraction Despite Unreliable Channels The Consensus Abstraction Consensus Algorithms for Asynchronous Systems Enriched with Various Failure Detectors Constructing Failure Detectors

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