

# FPGA BASED SYSTEM DESIGN

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**What is FPGA-based design?** FPGA-based design refers to Field Programmable Gate Arrays, or FPGAs, that are used in the place of microcontrollers to execute sets of functions instead of having a lot of sequential steps and controllers that don't create a unified process.

**Is FPGA faster than GPU?** FPGAs can offer performance advantages over GPUs when the application demands low latency and low batch sizes—for example, with speech recognition and other natural language processing workloads.

**Is Arduino a FPGA?** Arduino is a micro controller and will execute all your operations in a sequential fashion whereas an FPGA is a field programmable gate array which will execute all your operations in parallel fashion.

**What is Oracle Database Standard Edition 2?** It supports relational, JSON, XML, spatial, graph and unstructured data, enabling you to focus on building applications without having to worry about how to persist such data. Oracle Database SE2 can be licensed on servers with a maximum of 2 sockets.

**What is Oracle real application cluster?** Oracle Real Application Clusters (RAC) allow customers to run a single Oracle Database across multiple servers in order to maximize availability and enable horizontal scalability, while accessing shared storage.

**What is Oracle 11g Release 2?** Oracle Database 11g Release 2 introduces the Oracle Grid Infrastructure installation. For single instance databases, Oracle Grid Infrastructure includes Oracle Automatic Storage Management (Oracle ASM), the listener, and Oracle Restart.

## **How to start Oracle Database 11g Express Edition?**

**What are the limitations of Standard Edition 2?** CPU Thread Limitation: SE2 supports a maximum of 16 CPU threads. Socket Limitation: SE2 can only be licensed on servers with a maximum of two sockets, making it suitable for smaller server deployments.

**Is the Oracle Database Standard Edition free?** Explore the perfect database solution for your upcoming project! Experience Oracle Database for free, available in both cloud and on-premises options.

**What is the purpose of cluster in Oracle?** A cluster provides an optional method of storing table data. A cluster is made up of a group of tables that share the same data blocks. The tables are grouped together because they share common columns and are often used together. For example, the emp and dept table share the deptno column.

**Which two are true about Oracle real application clusters?** Oracle Real Application Clusters (RAC) is a database technology that allows multiple instances of Oracle Database to run on different servers. Statements that are true about RAC databases include: They provide enhanced performance and scalability by allowing workload to be divided among multiple servers.

**Which Oracle cloud service does not support real application cluster database?** Oracle Cloud Database Services Oracle Real Application Clusters is supported with Oracle Database Services in Oracle Cloud Infrastructure (OCI). Oracle does not support Oracle Real Application Clusters on Non-Oracle public cloud environments.

**Is Oracle 11g still being used?** From the 31st December 2020, Oracle are stopping extended support on 11g database. This could have a huge impact on your business if you're running 11g, as you'll no longer be supported. This carries a significant risk to your business continuity and performance, should you encounter a significant database incident.

**How old is Oracle 11g?** 0.4. Oracle Corporation started beta testing Oracle database 11g in September 2006 and announced the new release on 11 July 2007

in New York City (Equitable Auditorium, 787 Seventh Avenue, NY-10019). The first release of Oracle 11g (Oracle 11g Release 1) was released for Linux on 9 August 2007.

**What does the G stand for in Oracle 11g?** Version 11g of the Oracle Database, which included built-in testing for changes, the capability of viewing tables back in time, superior compression of all types of data and enhanced disaster recovery functions. The "g" stood for "grid computing," which supports clusters of servers that are treated as a single unit.

**Is Oracle 11g Express Edition free?** Oracle Database Express Edition (Oracle Database XE) is a free, smaller-footprint edition of Oracle Database.

**What is the difference between Oracle 11g and SQL Developer?** Oracle Database 11g is a database repository which stores relational data. With the help of SQL queries and code, you can retrieve data from Oracle Database 11g. SQL Developer tool is one of the IDE where you can write queries and execute code to retrieve meaning full data.

**How to create database in Oracle 11g step by step manually?**

**What does standard edition mean?** The standard edition is just the base game. Typically the special edition comes with some extra content for the game. It's basically just an excuse for the publisher to charge more for the game, as the extra content is almost always inconsequential and unnecessary.

**Does Standard Edition support always on?** An Always On basic availability group can be created on any two SQL Server 2016 Standard Edition servers. When you create a basic availability group, you must specify both replicas during creation.

**What are the limitations and exceptions to copyright?** Limitations and exceptions to copyright relate to a number of important considerations such as market failure, freedom of speech, education and equality of access (such as by the visually impaired).

**Can I use an Oracle Database without a license?** You must have the appropriate licenses to use Oracle software in a development environment. This policy applies regardless of the environment's intended purpose for development, testing, or

staging. Oracle's licensing policy does not differentiate between different environments.

**Can I get an Oracle Database for free?** Free Oracle Database for Everyone You get an Oracle Database to use in any environment, plus the ability to embed and redistribute – all completely free!

**Can I practice Oracle Database for free?** Free Oracle Database for Everyone Whether you are a developer, a DBA, a data scientist, an educator, or just curious about databases, Oracle Database Express Edition (XE) is the ideal way to get started.

**How do I stop Oracle cluster database?** To stop Oracle Clusterware and Oracle ASM instances on all nodes in the cluster, you can enter a single command: `crsctl stop cluster -all` . Note: The `crsctl stop crs` command is used to stop Oracle Restart services for single-instance databases.

**How to enable cluster in Oracle?** From one of the nodes, start the Oracle Solaris Cluster configuration utility by running the `scinstall` command, which will configure the software on the other node as well, and then type 1 from the Main menu to choose to create a new cluster or add a cluster node.

**What are clusters used for?** A computer cluster can provide faster processing speed, larger storage capacity, better data integrity, greater reliability and wider availability of resources. Computer clusters are usually dedicated to specific functions, such as load balancing, high availability, high performance or large-scale processing.

**What are the benefits of Oracle real application clusters?** Oracle Real Application Clusters (RAC) is an enterprise-level solution for distributing databases across multiple nodes. It enables organizations to improve availability and scalability by enabling fault tolerance and load balancing while increasing performance.

**What is the golden gate in Oracle?** GoldenGate is the premier replication tool for Oracle databases and is used for data integration, high availability, and online migrations. In addition, OCI GoldenGate connects to many non-Oracle and open source databases across on-premises and cloud platforms.

## **How to check cluster status in Oracle?**

**What are the restrictions of Oracle Standard Edition 2?** Oracle Database Standard Edition 2 may only be licensed on servers that have a maximum capacity of 2 sockets. In addition, notwithstanding any provision in Your Oracle license agreement to the contrary, each Oracle Database Standard Edition 2 database may use a maximum of 16 CPU threads at any time.

**What are the different editions of Oracle database?** Table 1-1 lists feature availability for Oracle Database Standard Edition One (SE1), Standard Edition (SE), and Enterprise Edition (EE). The Y value in a column means that the feature is available in the specified release; N means that it is unavailable.

**What is Oracle gen2?** It provides a complete set of solutions for managing data across diverse data types, and provides rich AI- based visual analytics. Gen 2 Cloud spans multiple services. There's app dev, which includes mobile, blockchain, AI/ML, and chatbots.

**What is the current Oracle DB version?** Currently, the latest Oracle versions include Oracle Database 19c (Long Term Release), 21c (Innovation Release), and the newly released, 23c (Long Term Release).

**Can I use an Oracle Database without a license?** You must have the appropriate licenses to use Oracle software in a development environment. This policy applies regardless of the environment's intended purpose for development, testing, or staging. Oracle's licensing policy does not differentiate between different environments.

**Can we install 2 versions of Oracle Database?** Oracle Database supports multiple Oracle homes. You can install this release or earlier releases of the software more than once on the same system, in different Oracle home directories.

**What is the maximum number of cores in Oracle Standard Edition 2?** There is no limit to the number of cores. It is important to note though that Oracle Database Standard Edition 2 automatically limits the maximum number of CPU threads to 16 at any one time.

**What is Oracle 11g?** Version 11g of the Oracle Database, which included built-in testing for changes, the capability of viewing tables back in time, superior compression of all types of data and enhanced disaster recovery functions. The "g" stood for "grid computing," which supports clusters of servers that are treated as a single unit.

**When was Oracle 11g released?**

**What is the difference between Oracle 11g and 19c?** Security vulnerabilities: Oracle 11g will no longer receive regular security patches and fixes, leaving your system vulnerable to hackers. Lack of new features: By upgrading to 19c, you gain access to improved performance, scalability, and new capabilities not present in 11g.

**What is the difference between Oracle Gen1 and Gen2?** Gen 2 introduces significant enhancements in architecture, security, automation, performance, and user experience compared to Gen 1. How has the architecture improved in Gen 2? Gen 2's architecture is optimized for enhanced security and performance, supporting more complex workloads and applications.

**What is OCI Classic vs gen2?** With the IAM suite, administrators can manage users, groups and access privileges. Performance – Oracle's latest cloud offering, OCI Generation 2, is not just an upgrade to OCI Classic, it's a complete rebuild from scratch, incorporating the experience and lessons learned from OCI Classic.

**When did OCI Gen 2 come out?** Oracle's cloud infrastructure was made generally available (GA) on October 20, 2016 under the name "Oracle Bare Metal Cloud Services." Oracle Bare Metal Cloud Services was rebranded as Oracle Cloud Infrastructure in 2018 and dubbed Oracle's "Generation 2 Cloud" at Oracle OpenWorld 2018.

**Is Oracle 11g still supported?** Oracle Premier Support for 11.2. 0.4 (11G) came to an end back in 2015, with Extended Support due to expire 31st December 2020.

**Do people still use Oracle DB?** Oracle's strength lies in its extensive portfolio of products and services, including its highly regarded database solutions. Many enterprises continue to rely on Oracle databases for their robustness and reliability.

**What is the difference between Oracle 11g and 12c?** Oracle 12c is just upgraded version of the Oracle 11g with some new features like cloud support and pluggable database, kind of like master slave architecture. With the Oracle 12 c, you can plug your database to cloud anytime. It has multiple new features like JSON support, multitenant architecture and etc.

## **The Prisoner Society: Power, Adaptation, and Social Life in an English Prison**

### **Clarendon Studies in Criminology**

#### **Summary**

This seminal work by researcher C.H. Rolph provides a detailed account of the social structure and dynamics within a maximum-security prison in England. Rolph's study focuses on the ways in which prisoners navigate the complexities of confinement, adapt to the prison environment, and establish their own social order.

#### **Questions and Answers**

##### **1. What is the central thesis of Rolph's research?**

Rolph argues that prisons are microcosms of society, with their own unique hierarchies, informal rules, and power dynamics. Prisoners adapt to these structures through a process of "secondary adjustment," where they conform to the demands of prison life while maintaining their autonomy and sense of self.

##### **2. How is power distributed within the prison?**

Power is primarily held by prison staff, who control the physical and social aspects of the prison environment. However, prisoners also negotiate and exert their own power within the confines of the institution. They form alliances, manipulate the system to their advantage, and create their own "shadow" economy based on contraband and favors.

##### **3. How do prisoners cope with the challenges of confinement?**

Prisoners develop various coping mechanisms to deal with the stress, boredom, and isolation of prison life. These mechanisms include:

- Joining groups or "rings" for support
- Seeking out leadership roles or informal status
- Engaging in illicit activities, such as gambling or drug use
- Escaping into fantasy or religion

#### **4. What is the impact of prison on social life?**

Prison disrupts traditional social relationships and norms. Prisoners lose contact with family and friends, and their relationships within the prison are often transient and based on situational factors. This leads to a sense of isolation and an erosion of social bonds.

#### **5. What implications does Rolph's research have for prison reform?**

Rolph's study highlights the need for a more humane and rehabilitative approach to imprisonment. He suggests that prisons should focus on providing prisoners with opportunities for growth, education, and the development of positive social skills. By addressing the underlying social and psychological factors that contribute to crime, prisons can reduce recidivism and promote successful reintegration into society.

**What is the synopsis of a pre marriage Counselling handbook set Donna Goerz?** In A Pre-Marriage Counselling Handbook, Alan and Donna Goerz provide a detailed guide on how to build a successful marriage in an African context. This seminar-in-a-book will help pastors and counselors equip couples for a lifetime of God-honouring marriage.

**What is premarital counseling pdf?** Premarital counseling is a type of therapy that helps couples prepare for marriage. Premarital counseling can help ensure that you and your partner have a strong, healthy relationship — giving you a better chance for a stable and satisfying marriage.

**Why pre-marital counselling?** Premarital counselling provides a safe space for couples to address communication styles, emotional expression, and conflict resolution strategies. Communication is a vital part of a healthy relationship, but is something most people don't have modelled for them in their families of origin and don't study in school.



**What is postmarital counseling?** In post-marriage counselling, a couple works with a trained marriage therapist to deal with any issues they face after the wedding, such as communication problems, conflicts, adjustment issues, and changes in expectations.

**What is premarital counseling summary?** Premarital counselling is a therapy which helps to prepare the couples mentally for marriage. The counselling helps to make sure that you and your spouse can have a strong and healthy relationship throughout your life. Premarital counselling helps to improve a couple's relationship before marriage.

**What happens in marriage prep?** Topics that you can expect to learn about include “family of origin” (your existing family roles, expectations, and traditions derived from your own upbringing), financial considerations, career goals and practical issues, communication skills, intimacy and sexuality, conflict resolution, Natural Family Planning (NFP), ...

**What is the difference between premarital and marital counselling?** Couples coming to marriage counseling are more often focused on repairing or reinvigorating their relationship, while couples coming for pre-marital counseling are more often looking for insights and tools to equip them for the road ahead.

**Is premarital counseling effective?** The researchers found that couples who participated in premarital counseling had a 31% lower chance of divorce compared to those who did not receive such counseling.

**What is the philosophy of premarital counseling?** Premarital counseling helps couples understand and plan for marriages that will glorify God. It also helps couples set reasonable expectations for each other and for married life.

**What are the top 3 things that couples should discuss during premarital counseling and why?**

**Is pre-marital counselling biblical?** Premarital Counseling provides a healthy, biblical view of marriage. Understanding what the Bible says about marriage will be foundational to your relationship.

**Does premarital counseling reduce divorce rates?** The short answer here is a resounding yes. Premarital counseling studies have shown that it can reduce the likelihood of a future divorce by around 50%. It is more effective to do quality premarital counseling for about six to nine months than living together as a couple before marriage.

**How many marriages survive after marriage counseling?** Studies show that roughly 70% of couples stay together after counseling, and many have a better relationship because of the time they took to understand themselves and each other.

**What is Catholic pre marriage counseling called?** Description. Approaches to Pre-Cana vary among Catholic dioceses and parishes. Often six-month sessions are led by a priest or deacon with support from a married Catholic couple.

**What is conjoint marriage counseling?** Conjoint couple and family therapy refers to couples and families treatment wherein the clinician sees two or more family members in the same session simultaneously.

**What are the challenges of premarital counselling?** Common issues which couples bring to a session of pre-marriage counselling include stress around wedding plans, different approaches to financial management, nerves, cultural differences and the impact of step-families.

**What are the goals of premarital counselling?** Premarital counseling aims to help you build a strong foundation for marriage. "Premarital counseling helps couples create a blueprint for their lives together," says Sabrina Romanoff, PsyD, a licensed psychologist who specializes in relationships.

**Is premarital counseling awkward?** It might feel weird and you might squirm in your chair, but that's okay. It can be difficult to admit that you don't really know how to talk about this or that subject, or you would rather not. But together, in premarital counseling, we can figure out how to do this. Just getting the conversation started is a big step.

**What is the foccus test?** The FOCCUS© 4th Edition Pre-Marriage Inventory is a 151-item marriage preparation tool, which includes additional, optional items for interfaith couples, cohabiting couples, remarriage couples and couples with children.

**What are the three stages of marriage preparation?** St. John Paul II wrote these words in *Familiaris Consortio* (On the Christian Family in the Modern World). In this exhortation, he introduced the concept of a three-stage marriage preparation process: remote, proximate and immediate (*Familiaris Consortio*, 66).

**What are the psychological preparation before marriage?** Mental readiness before marriage is an important step towards building a healthy relationship and strengthening your emotional foundation. Through self-understanding, commitment, effective communication, and readiness to face challenges, you can prepare yourself for a happy and fulfilling marriage.

**What is the summary of marriage counseling?** Marriage counseling focuses on relationships and marriages. It's also commonly referred to as couples therapy or marriage therapy. Marriage counselors are trained and certified to help couples diagnose relationship problems and develop practical solutions.

**What is the synopsis of love and life Laura Schlessinger?** In her newest book, *Love & Life*, Dr. Laura dives into the controversial topics and thorniest problems that face today's parents and grandparents, husbands and wives, men and women, and everyone seeking love, fulfillment, success—or simply anyone who wants to be a decent and productive human being.

**What is the main idea of the arrangers of marriage?** It highlights his loss of identity but also how he enforces a change upon his wife as well. It shows his opinion that immigrants should stop taking part in activities that are from their own culture and should conform to the American customs. The apartment is a symbol of Chinaza's failed expectations.

**What is the synopsis of an American marriage by Tayari Jones?** Synopsis. Newlyweds Celestial and Roy are the embodiment of both the American Dream and the New South. He is a young executive, and she is an artist on the brink of an exciting career. But as they settle into the routine of their life together, they are ripped apart by circumstances neither could have imagined.

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