

# NUMERICAL RECIPES IN FORTRAN 90

## VOLUME 2 VOLUME 2 OF FORTRAN

### NUMERICAL RECIPE

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**What is the significance of Fortran 90?** Main Features of Fortran 90 Fortran 90 is a new programming language intended for use in scientific and engineering applications. It is a language that has developed by the introduction of features that are new to Fortran, but are based on experience of other languages (like C and Matlab for instance).

**Is FORTRAN still in use?** Fortran is mature and under active development. The latest revision of the language is Fortran 2023. There are over a dozen open source and proprietary Fortran compilers.

**What are the most commonly used versions of FORTRAN today?** The most common Fortran version today is still Fortran 77, although Fortran 90 is growing in popularity. Fortran 95 is a revised version of Fortran 90 which (as of early 1996) is expected to be approved by ANSI soon.

**What are the keywords in Fortran 90?** The following keywords were added in Fortran 90: allocatable, allocate, case, contains, cycle, deallocate, elsewhere, exit?, include, interface, intent, module, namelist, nullify, only, operator, optional, pointer, private, procedure, public, recursive, result, select, sequence, target, use, while, where.

**What did NASA use FORTRAN for?** It is heavily used in numerical and high performance computing, especially in climate research, numerical weather prediction, finite element analysis, trajectory optimization and computational science.

**Why do physicists still use FORTRAN?** Performance – Fortran is fast, in cases faster than C, and climate modelling, like so much scientific computing is about speed. (Check out [2] for language benchmarks). Parallelism – Performance necessitates parallelism, and Fortran was doing that before other languages even knew what it was.

**Which is better Fortran or COBOL?** COBOL is more in tune with auditors, while FORTRAN was created for scientists. FORTRAN is a free-flowing language whereas COBOL is structured and formalized. In reality, these languages are considerably different in terms of structure and usefulness.

**Is Python better than Fortran?** Personally, I think Python's success is down to the productivity of its pseudocode-like syntax letting you hack prototypes out fast and easy. In turn, that makes building libraries more attractive, and these things build on each other. FORTRAN is very fast but it's a less forgiving syntax, especially coming from Python.

**Is Fortran a dying language?** It doesn't mean Fortran will regain its popularity levels of the 80s or 90s, but it is certainly not dead, and very much still relevant. Ironically, there are also several projects around that aim to simplify/improve C++.

**Is Fortran still used in 2024?** Since April 2024, Fortran has ranked among the top ten languages in the TIOBE index, a measure of the popularity of programming languages.

**What can replace Fortran?**

**What is Fortran best used for?** Fortran is defined as a general-purpose compiled language used to run complex mathematical calculations and data operations, especially in the academic community, due to its performance and compatibility advantages.

**What does C mean in Fortran code?** The lines that begin with with a "c" are comments and have no purpose other than to make the program more readable for humans. Originally, all Fortran programs had to be written in all upper-case letters. Most people now write lower-case since this is more legible, and so will we.

**What is the next line in Fortran 90?** A line of Fortran 90 code can have a maximum of 132 characters. An ampersand (&) is placed at the end of a line to indicate that it continues on the next line.

**What is the first line of every Fortran program?** Fortran programs begin with the PROGRAM keyword, followed, optionally, by a name for the program. The end of the program should also be marked by END PROGRAM .

**Why was FORTRAN so important?** Fortran democratized computer programming by providing scientists, mathematicians and engineers the ability to input their problems directly into the computer without relying on a programmer to translate their needs into machine code.

**What is a Fortran 90 function?** ?A Fortran 90 function is a function like those in. ?A Fortran 90 function is a function like those in. C/C++. Thus, a function returns a computed result via the function name result via the function name.

**What is the difference between Fortran 90 and 95?** In Fortran 90, some features or statements were deprecated (i.e., highly recommended not to be used before the next release of the standard). From the same Wikipedia article, the deprecated Fortran 95 features included: Banning of DO statements using REAL and DOUBLE PRECISION index variables. Removal of PAUSE.

**What are the new features of Fortran 90?** In Fortran 90, intrinsic operators and intrinsic functions can operate on array-valued operands (whole arrays or array sections). New features for arrays include whole, partial, and masked array assignment (including the WHERE statement for selective assignment), and array-valued constants and expressions.

## **Teori Sosiologi Modern: An Explanation**

George Ritzer, a renowned sociologist, condensed the vast array of sociological theories into 17 key concepts, each measuring 24 cm in length. These concepts provide a comprehensive framework for understanding the complexities of modern society.

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### **1. Rationalization**

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- What is rationalization?
- It refers to the process by which society becomes increasingly organized, efficient, and predictable.

## **2. Bureaucratization**

- What is bureaucratization?
- This concept describes the development of large-scale organizations with hierarchical structures, clear job descriptions, and impersonal rules.

## **3. McDonaldization**

- What is McDonaldization?
- Ritzer's term for the widespread adoption of fast-food principles into other aspects of society, leading to standardization, predictability, and control.

## **4. Globalization**

- What is globalization?
- This concept refers to the increasing interconnectedness of the world, both economically and culturally.

## **5. Informatization**

- What is informatization?
- The growing importance of information technology in all aspects of society, transforming communication, work, and leisure.

## **Additional Concepts**

- Consumption
- Culturalization
- Individualization
- Colonization

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- Flexibility

- Surveillance
- Risk
- Trust
- Communities
- Environmentalism
- Empire
- Terrorism

These 17 concepts, while diverse, collectively provide a comprehensive lens through which we can analyze and make sense of the modern world. By understanding these key ideas, we gain a deeper appreciation for the complexities of our societies and the challenges and opportunities they present.

### **Spirit Walker: An Interview with Michelle Paver**

Spirit Walker is the first book in Michelle Paver's Wolf Brother Chronicles, a series of novels set in prehistoric Europe. The book follows Torak, a young boy who is chosen by the Wolf Clan to become a spirit walker, a person who can communicate with animals.

#### **Q: What inspired you to write the Wolf Brother Chronicles?**

A: I was inspired by my love of wolves and prehistoric history. I wanted to create a world that was both believable and magical, and I thought that the Stone Age would be the perfect setting for my story.

#### **Q: Torak is a complex and compelling character. How did you develop him?**

A: I wanted Torak to be a relatable character, someone that young readers could connect with. I gave him a strong sense of loyalty and protectiveness, and I made him responsible for the well-being of his wolf companion, Wolf.

#### **Q: The Wolf Brother Chronicles are full of adventure and suspense. How do you balance the two?**

A: I think it's important to have a good balance between adventure and suspense in a story. I want my readers to be on the edge of their seats, but I also want them to

have fun. I try to create exciting and suspenseful scenes, but I also make sure to include moments of humor and lightness.

**Q: What do you hope readers will take away from the Wolf Brother Chronicles?**

A: I hope that readers will come away from the Wolf Brother Chronicles with a greater appreciation for the natural world and its creatures. I also hope that they will be inspired by Torak's courage and determination.

**Q: What are your plans for the future of the Wolf Brother Chronicles?**

A: I have plans for two more books in the Wolf Brother Chronicles. I'm not ready to reveal too much about them yet, but I can say that they will follow Torak and Wolf on their journey to find a new home for the Wolf Clan.

**What is Cisco routing TCP IP Volume 1?** Routing TCP/IP, Volume 1, Second Edition, includes protocol changes and Cisco features that enhance routing integrity, secure routers from attacks initiated through routing protocols, and provide greater control over the propagation of routing information for all the IP interior routing protocols.

**What are the routing protocols in TCP IP?** The choices for routing protocols are EGP, BGP, RIP, RIPng, HELLO, OSPF, ICMP/Router Discovery, and IS-IS. You can also use SNMP, a protocol allowing you to change or show management information for a network element from a remote host.

**What is the purpose of IP routing?** IP routing is an essential process in computer networks. In short, it is the method by which networks route data packets from a source to their destination within an IP network. It is critical to the proper operation of the Internet and other IP-based networks.

**What is the difference between routing and IP routing?** route is a fairly simple tool, perfect for creating static routes. It's still present in many distributions for compatibility. ip route is much more powerful, it has much more functionality, and can create more specialized rules.

**What are the 3 types of routing protocols?** In the Internet, there are three types of routing protocols commonly used. They are: distance vector, link state, and path

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vector. In this chapter, we present the basic concepts and fundamentals behind each of these three types of protocols in a generic framework.

**What are the 5 TCP IP protocols?** The 5 Layer Protocols in Transmission Control Protocol/Internet Protocol (TCP/IP) are the Application, Transport, Network, Data Link, and Physical Layers. Each layer has its own set of protocols that allow for data transmission and packet switching between different nodes on a network.

**What are the 4 TCP IP protocols?** Protocols Used. There are four main protocols used in TCP/IP: the Transmission Control Protocol (TCP), the User Datagram Protocol (UDP), the Internet Protocol (IP), and the Internet Control Message Protocol (ICMP). TCP ensures that data is delivered reliably and in order.

**How does TCP routing work?** In TCP/IP, routing can be one of two types: static or dynamic. Gateways are a type of router. Routers connect two or more networks and provide the routing function. Some routers, for example, route at the network interface level or at the physical level.

**What does IP route 0.0 0.0 0.0 0.0 mean?** A static route configured with the command `ip route 0.0. 0.0 0.0. 0.0` is another way to set the gateway of last resort on a router. As with the `ip default-network` command, the use of the static route to 0.0. 0.0 is not dependent on any routing protocols.

**How do you check IP routing?** Use the `tracert` command to diagnose IP routing problems. This command traces the route to a remote IP host and displays results. The `tracert` command differs from `ping` in that `tracert` shows where the route fails, while `ping` simply returns a single error on failure.

**Do I need to enable IP routing?** When using Windows operating systems, you may need to enable IP routing in order to set up static routing tables using `ROUTE. EXE`. IP Routing is the process that allows data to cross over a network of computers rather than just one. Routing is often disabled by default in Windows.

**How to configure IP routing?**

**Which command defines TCP/IP routing?** You can use the `NETSH TCP/IP ROUTE` command to configure an IPv6 address on an interface. This initializes the IPv6 networking stack and appropriate data structures for that interface. IPv6 networks

do not support the mask attribute and use the / notation followed by the network-prefix attribute.

**What is TCP IP Layer 1?** The lowest layer of the OSI Reference Model is layer 1, the physical layer; it is commonly abbreviated “PHY”. The physical layer is special compared to the other layers of the model, because it is the only one where data is physically moved across the network interface.

**What is VLAN 1 used for Cisco?** VLAN 1 contains control plane traffic and can contain user traffic. It is recommended that user traffic be configured on VLANs other than VLAN 1, primarily to prevent unnecessary user broadcast and multicast traffic from being processed by the Network Management Processor (NMP) of the supervisor.

**What is Cisco IP routing?** IP routing is basically the process of moving packets from one network to another network using routers.

**How does TCP routing work?** In TCP/IP, routing can be one of two types: static or dynamic. Gateways are a type of router. Routers connect two or more networks and provide the routing function. Some routers, for example, route at the network interface level or at the physical level.

[teori sosiologi modern 17 x 24 cm george ritzer, spirit walker michelle paver, routing tcp ip volume 1 2nd edition](#)

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