

РАЗВИТИЕ ОТЕЧЕСТВЕННОЙ ТЕХНОЛОГИИ ПРОГРАММИРОВАНИЯ

Аннотация. Рассмотрена эволюция развития технологий компьютерных систем по пути автоматизации и создания сборочных линий. Приведены основные положения, объекты технологии программирования и сборки сложных систем из готовых ресурсов (модулей, объектов, компонентов и сервисов), которые конфигурируются в варианты структуры ПС по соответствующим линиям на фабриках программ.

Ключевые слова: программирование, технология, модуль, объект, компонент, готовые ресурсы, инженерная система, сборочный конвейер, сборочное программирование, методология линий, фабрика программ.

ВВЕДЕНИЕ

Академик В.М. Глушков основал и сформулировал общие положения технологии ЭВМ, систем и программ в 60-х годах прошлого столетия, когда началось построение семейства отечественных ЭВМ и систем. Ученый предвосхитил разработку гибких компьютерных технологий, обеспечивающих производство компьютерных систем по типу конвейерной сборки, проверенной на автомобильных заводах (factory) Форда. По мнению В.М. Глушкова, технология является двигателем прогрессивного развития любой науки, в том числе и теории создания ЭВМ, информационных систем, АСУ, АСУТП и др. [1].

Идею технологии конвейерной сборки В.М. Глушков изложил на научном семинаре Института кибернетики АН УССР (1974 г.), представив ее как набор технологических линий производства компьютерных продуктов и прикладных систем. На основе этой концепции строились новые средства вычислительной техники — большие и малые высокопроизводительные вычислительные системы с макроконвейерной и многопроцессорной организацией ЭВМ («Украина», «Днепр», «Маяк» и др.), а также информационные системы типа АИС «Юпитер» в Институте кибернетики АН УССР [2, 3].

Идея конвейерной сборки оказалась настолько продуктивной, что и сегодня компьютерные сборочные технологии обеспечивают выпуск различных моделей компьютеров, которые широко используются 70 % населения Земного шара. На этих компьютерах решается множество бизнес-задач, реализуются многочисленные информационные услуги с помощью Интернета и др. Однако для решения сложных научно-технических задач современные технологии разработки соответствующих информационных и программных систем не достаточно совершенны. Их еще предстоит улучшать и развивать, чтобы поднять уровень производства.

Технология программирования (ТП) сложных систем создавалась в течение многих лет научными коллективами академических институтов многих республик СССР.

В данной статье рассмотрены пути развития, основные положения и объекты ТП, а также технология сборки сложных систем из готовых разнородных программных элементов, называемых компонентами повторного использования (КПИ) или *reuses*.

Razvitie Nauki I Tekhnologii Regionalnyi Aspekt

Michael Hoelscher



Razvitie Nauki I Tekhnologii Regionalnyi Aspekt:

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Table of Contents Razvitie Nauki I Tekhnologii Regionalnyi Aspekt

1. Understanding the eBook Razvitie Nauki I Tekhnologii Regionalnyi Aspekt
 - The Rise of Digital Reading Razvitie Nauki I Tekhnologii Regionalnyi Aspekt
 - Advantages of eBooks Over Traditional Books
2. Identifying Razvitie Nauki I Tekhnologii Regionalnyi Aspekt
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Razvitie Nauki I Tekhnologii Regionalnyi Aspekt
 - User-Friendly Interface
4. Exploring eBook Recommendations from Razvitie Nauki I Tekhnologii Regionalnyi Aspekt
 - Personalized Recommendations
 - Razvitie Nauki I Tekhnologii Regionalnyi Aspekt User Reviews and Ratings

- Razvitie Nauki I Tekhnologii Regionalnyi Aspekt and Bestseller Lists
- 5. Accessing Razvitie Nauki I Tekhnologii Regionalnyi Aspekt Free and Paid eBooks
 - Razvitie Nauki I Tekhnologii Regionalnyi Aspekt Public Domain eBooks
 - Razvitie Nauki I Tekhnologii Regionalnyi Aspekt eBook Subscription Services
 - Razvitie Nauki I Tekhnologii Regionalnyi Aspekt Budget-Friendly Options
- 6. Navigating Razvitie Nauki I Tekhnologii Regionalnyi Aspekt eBook Formats
 - ePub, PDF, MOBI, and More
 - Razvitie Nauki I Tekhnologii Regionalnyi Aspekt Compatibility with Devices
 - Razvitie Nauki I Tekhnologii Regionalnyi Aspekt Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Razvitie Nauki I Tekhnologii Regionalnyi Aspekt
 - Highlighting and Note-Taking Razvitie Nauki I Tekhnologii Regionalnyi Aspekt
 - Interactive Elements Razvitie Nauki I Tekhnologii Regionalnyi Aspekt
- 8. Staying Engaged with Razvitie Nauki I Tekhnologii Regionalnyi Aspekt
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Razvitie Nauki I Tekhnologii Regionalnyi Aspekt
- 9. Balancing eBooks and Physical Books Razvitie Nauki I Tekhnologii Regionalnyi Aspekt
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Razvitie Nauki I Tekhnologii Regionalnyi Aspekt
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Razvitie Nauki I Tekhnologii Regionalnyi Aspekt
 - Setting Reading Goals Razvitie Nauki I Tekhnologii Regionalnyi Aspekt
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Razvitie Nauki I Tekhnologii Regionalnyi Aspekt
 - Fact-Checking eBook Content of Razvitie Nauki I Tekhnologii Regionalnyi Aspekt
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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