**Инструментарий технологии программирования**

**Инструментарий технологии программирования** – совокупность программ и программных комплексов, обеспечивающих технологию разработки, отладки и внедрения создаваемых программных продуктов.

Группы программных продуктов:

**1. Средства для создания приложений:**

*локальные средства*, обеспечивающие выполнение отдельных видов работ по созданию программ, *делятся на*:

– языки и системы программирования;

– инструментальные среда пользователя.

*интегрированные среды разработчиков программ*, обеспечивающие выполнение комплекса взаимосвязанных работ по созданию программ.

**2.** **Средства для создания информационных систем (Case–технология),** представляющая методы анализа, проектирования и создания программных систем и предназначенная для автоматизации процессов разработки и реализации информационных систем, делятся на:

– встроенные в систему реализации;

– независимые от системы реализации.

**Средства для создания приложений**

**1.** *Локальные средства разработки программ*

Данные средства на рынке программных продуктов наиболее представительны и включают языки и системы программирования, а также инструментальную среду пользователя.

Язык программирования – формализованный язык для описания алгоритма решения задачи на компьютере. Они делятся на классы:

– *машинные языки* – языки программирования, воспринимаемые аппаратной частью компьютера (машинные коды);

– *машинно-ориентированные языки* – языки программирования, которые отражают структуру конкретного типа компьютера (ассемблеры);

– *алгоритмические языки* – не зависящие от архитектуры компьютера языки программирования для отражения структуры алгоритма (Паскаль, бейсик, Фортран и др.);

– *процедурно–ориентированные языки* – языки программирования, где имеется возможность описания программы как совокупности процедур (подпрограмм).

– *проблемно–ориентированные языки* – предназначены для решения задач определенного класса (Лисп, Симула);

– *интегрированные системы программирования*.

Программа, подготовленная на языке программирования, проходит этап *трансляции* – преобразование исходного кода программы в объектный код. Трансляция может выполняться с помощью средств компиляторов или интерпретаторов. *Компиляторы* транслируют всю программу, но без ее выполнения. *Интерпретаторы* выполняют пооператорную обработку и выполнение программы. Существуют специальные программы, предназначенные для отслеживания выполнения программы в пооператорном варианте (трассировка) и анализа выполнения других программ – *отладчики*.

Системы программирования включают: *компилятор*, *интегрированную* *среду разработчика программ; отладчик; средства оптимизации кода программ; набор библиотек; редактора связей* (специальная программа, обеспечивающая построение загрузочного модуля, пригодного к выполнению); *справочные системы; систему* *поддержки и управления проектом программного комплекса.*

*Средства поддержки проектов* – новый класс программного обеспечения, предназначенный для: отслеживания изменений, выполненных разработчиком программ; поддержки версий программы с автоматической разноской изменений; получение статистики о ходе работ проекта.

Инструментальная среда пользователя представлена специальными средствами, встроенными в пакеты прикладных программ: макрокоманды; библиотека функций, процедур, объектов и методов; клавишные макросы; языковые макросы; генераторы приложений; языки запросов и манипулирования данными и многое другое.

Средства отладки и тестирования программ предназначены для подготовки разработанной программы к промышленной эксплуатации.

**2.** *Интегрированные среды разработки программ* (повышение производительности труда программистов, автоматизация создания кодов программ, обеспечивающих интерфейс пользователя графического типа).

[Источник](https://studfile.net/preview/8936248/page:3/)

**Состав и назначение инструментария технологии программирования**

**Рис. 17 Классификация инструментария технологии программиррования.**

В настоящее время бурно развивается направление, связанное с технологией создания про­граммных продуктов. Это обусловлено переходом на промышленную технологию произ­водства программ, стремлением к сокращению сроков, трудовых и материальных затрат на производство и эксплуатацию программ, обеспечению гарантированного уровня их качест­ва. Это направление часто называют программотехникой. Программотехника— технология разработки, отладки, верификации и внедрения программного обеспечения. **Инструментарий** **технологии программирования** — программные продукты поддержки (обеспечения) технологии программирования.

В рамках этих направлений сформировались следующие группы программных продуктов (рис.17):

**Средства для создания приложений***,* включающие:

* *локальные средства*, обеспечивающие выполнение отдельных работ по созданию программ;
* *интегрированные среды* разработчиков программ, обеспечивающие выполнение комплекса взаимосвязанных работ по созданию программ;
* машинные языки (computer language) — языки программирования, воспринимаемые аппаратной частью компьютера (машинные коды);
* машинно-ориентированные языки (computer-oriented language) — языки программирования, которые отражают структуру конкретного типа компьютера (ассемблеры);
* алгоритмические языки (algorithmic language) — не зависящие от архитектуры компьютера языки программирования для отражения структуры алгоритма (Паскаль, Фортран, Бейсик и др.);
* процедурно-ориентированные языки (procedure-oriented language) — языки программирования, где имеется возможность описания программы как совокупности процедур (подпрограмм);
* проблемно-ориентированные языки (universal programming language) — языки про­граммирования, предназначенные для решения задач определенного класса (Лисп, РПГ, Симула и др.);
* компилятор;
* интегрированную среду разработчика программ;
* отладчик;
* средства оптимизации кода программ;
* набор библиотек (возможно с исходными текстами программ);
* редактор связей;
* сервисные средства (утилиты) для работы с библиотеками, текстовыми и двоичными файлами;
* справочные системы;
* документатор исходного кода программы;
* библиотека функций, процедур, объектов и методов обработки;
* макрокоманды;
* языковые макросы;
* программные модули-вставки;
* генераторы приложений;
* языки запросов высокого уровня и т.п.
* объектно-ориентированный язык программирования;
* высокопроизводительный компилятор;
* средства наглядного (визуального) создания программ (для создания системы меню, экранных форм, отчетных форм и т.п.);
* специальная технология работы с базами данных;
* принцип “открытой” системы: возможность добавления новых средств и перенос на другие платформы.
* встроенные в систему реализации — все решения по проектированию и реализации привязаны к выбранной системе управления базами данных (СУБД);
* независимые от системы реализации — все решения по проектированию ориентирова­ны на унификацию начальных этапов жизненного цикла и средств их документирова­ния, обеспечивают большую гибкость в выборе средств реализации.
* диаграмму потоков данных (DFD — data flow diagrams) совместно со словарями данных и спецификациями процессов;
* диаграмму «сущность-связь» (ERD — entity relationship diagrams), являющуюся инфологической моделью предметной области.

**[Читайте также:  Программирование разветвляющихся алгоритмов конспект кратко](https://laptopprocessors.ru/programmirovanie-razvetvlyayuschihsya-algoritmov-konspekt-kratko/" \t "_blank)**

[Источник](https://studfile.net/preview/7076031/page:5/)

**10.3. Инструментарий технологии программирования**

Это совокупность программ, обеспечивающих технологию разработки, отладки и внедрения программных продуктов. Их взаимосвязь представлена на рис. 10.2.

Инструментарий технологии программирования включает следующие виды программ:

1. **средства для создания приложений** (программ):

* локальные (***языки*** и ***системы программирования***, а также ***инструментальную среду пользователя***);
* интегрированные среды разработки программ. Основное назначение – повышение производительности труда программистов за счет автоматизации создания кодов программ, обеспечивающих интерфейс пользователя графического типа, а также автоматизации разработки запросов и отчетов (Delphi);

**Инструментарий технологии программирования**

**средства для создания программ средства для создания информационных систем (CASE-технологии)**локальныеинтегрированные***языки системы инструментальныепрограммирования программирования среды пользователя****операторные функциональные*машинно-зависимые проблемно-ориентированные машинно-ориентированные объектно-ориентированные универсальные логико-ориентированные Рис. 10.2. Структура инструментария технологии программирования

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1. **средства для создания информационных систем** (CASE-технологии). Позволяют поддерживать коллективную работу над проектом за счет возможности работы в локальной сети, экспорта – импорта любых фрагментов проекта, организации управления проектом.

В свою очередь **языки программирования** делятся на следующие виды:

1. *операторные*. Используются для кодирования алгоритмов, а потому также называются *алгоритмическими*. Имеют в составе:

* машинно-зависимые (ассемблер). Применяются для написания программ, явно использующих специфику конкретной аппаратуры. Каждый компьютер имеет такую систему программирования, которая изготавливается и поставляется фирмой-изготовителем вместе с компьютером;
* машинно-ориентированные (язык С). Объединяет идеи ассемблера и алгоритмического языка. Программы компактны и работают очень быстро.
* универсальные (Турбо-Паскаль, Бэйсик). Приближены максимально, насколько это возможно, к естественному английскому языку: название каждой команды – английское слово;

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**[Земельные участки под ИЖС в 8 минутах от г. Раменское](https://yandex.ru/an/count/WX4ejI_zOoVX2Lcy0HqG07DTSIOQbKgbKga4mGJ1T4gvqmJwV2vtzco_S-SDTxv-n-iDTxZAvgzUg6kibHw3bfWeIZ1Wq77qF0wJw3tSwkGWTRONB9dIG_mIivgYezNIsO5Z6LA05iV2Le0MloiiG8lV4HQWnU-Y5A35xmOBqDvRGtA-9hWK8jq_O3jokY5q5PAbGofWz4oBPXZnd7W2pU1W5sWYexsLTvW7R_OJAY1r20Wxds-ORBmLdF0uk5qbql5njN5GOKHjZNZ3dH71mwP9kIqD5-o5AiJStlZCKEM9bfQMbbPNbWVIQd0OFX3010nRlgvyjyP5hFTOnA2Lu2z8aI5GidguCM6nC-GHHnOfZ8NqIR2bnHX5LJ4Bfki0Z5O2iG38B63DkZNrwEQtWXDUarl12Q-vVo1UNumXIFU7JJW2Vh05BgZ_jS05zRqMkA0-Dm0enhzB7RTyBKvu-BDInorCytIFMVxWnp8bo-m47KMu19SwpIHt7jED7Rn9kkZzqrbVHqZ7vyrqe2yBC1aPvSaUReUtxCUq1niGXCo5qN-B1hE00FejhUiwus0M442lzMXAe4XL-IpD1GcMZ3O2HPmhbKgbbMc20vkUK_wlvEcXm8uI41Jy_HepEd1v3Gj6DdRKUmaXfLwICFviNpy60wI3tflKyl3jPeD1xc5f3fHQoml7Nq4W57b5MbWfdQH2~2?stat-id=5&test-tag=381530534894129&banner-sizes=eyI3MjA1NzYwODg5ODUyOTEzMCI6IjI0MHgzMDAifQ%3D%3D&format-type=118&actual-format=14&pcodever=866998&banner-test-tags=eyI3MjA1NzYwODg5ODUyOTEzMCI6IjI4MTQ3NDk4MTA5MzQyNiJ9&constructor-rendered-assets=eyI3MjA1NzYwODg5ODUyOTEzMCI6NjU3Mzd9&pcode-active-testids=864587%2C0%2C37&width=730&height=300" \t "_blank)**

**[190 000 ₽](https://yandex.ru/an/count/WX4ejI_zOoVX2Lcy0HqG07DTSIOQbKgbKga4mGJ1T4gvqmJwV2vtzco_S-SDTxv-n-iDTxZAvgzUg6kibHw3bfWeIZ1Wq77qF0wJw3tSwkGWTRONB9dIG_mIivgYezNIsO5Z6LA05iV2Le0MloiiG8lV4HQWnU-Y5A35xmOBqDvRGtA-9hWK8jq_O3jokY5q5PAbGofWz4oBPXZnd7W2pU1W5sWYexsLTvW7R_OJAY1r20Wxds-ORBmLdF0uk5qbql5njN5GOKHjZNZ3dH71mwP9kIqD5-o5AiJStlZCKEM9bfQMbbPNbWVIQd0OFX3010nRlgvyjyP5hFTOnA2Lu2z8aI5GidguCM6nC-GHHnOfZ8NqIR2bnHX5LJ4Bfki0Z5O2iG38B63DkZNrwEQtWXDUarl12Q-vVo1UNumXIFU7JJW2Vh05BgZ_jS05zRqMkA0-Dm0enhzB7RTyBKvu-BDInorCytIFMVxWnp8bo-m47KMu19SwpIHt7jED7Rn9kkZzqrbVHqZ7vyrqe2yBC1aPvSaUReUtxCUq1niGXCo5qN-B1hE00FejhUiwus0M442lzMXAe4XL-IpD1GcMZ3O2HPmhbKgbbMc20vkUK_wlvEcXm8uI41Jy_HepEd1v3Gj6DdRKUmaXfLwICFviNpy60wI3tflKyl3jPeD1xc5f3fHQoml7Nq4W57b5MbWfdQH2~2?stat-id=5&test-tag=381530534894129&banner-sizes=eyI3MjA1NzYwODg5ODUyOTEzMCI6IjI0MHgzMDAifQ%3D%3D&format-type=118&actual-format=14&pcodever=866998&banner-test-tags=eyI3MjA1NzYwODg5ODUyOTEzMCI6IjI4MTQ3NDk4MTA5MzQyNiJ9&constructor-rendered-assets=eyI3MjA1NzYwODg5ODUyOTEzMCI6NjU3Mzd9&pcode-active-testids=864587%2C0%2C37&width=730&height=300" \t "_blank)**

**[−24%](https://yandex.ru/an/count/WX4ejI_zOoVX2Lcy0HqG07DTSIOQbKgbKga4mGJ1T4gvqmJwV2vtzco_S-SDTxv-n-iDTxZAvgzUg6kibHw3bfWeIZ1Wq77qF0wJw3tSwkGWTRONB9dIG_mIivgYezNIsO5Z6LA05iV2Le0MloiiG8lV4HQWnU-Y5A35xmOBqDvRGtA-9hWK8jq_O3jokY5q5PAbGofWz4oBPXZnd7W2pU1W5sWYexsLTvW7R_OJAY1r20Wxds-ORBmLdF0uk5qbql5njN5GOKHjZNZ3dH71mwP9kIqD5-o5AiJStlZCKEM9bfQMbbPNbWVIQd0OFX3010nRlgvyjyP5hFTOnA2Lu2z8aI5GidguCM6nC-GHHnOfZ8NqIR2bnHX5LJ4Bfki0Z5O2iG38B63DkZNrwEQtWXDUarl12Q-vVo1UNumXIFU7JJW2Vh05BgZ_jS05zRqMkA0-Dm0enhzB7RTyBKvu-BDInorCytIFMVxWnp8bo-m47KMu19SwpIHt7jED7Rn9kkZzqrbVHqZ7vyrqe2yBC1aPvSaUReUtxCUq1niGXCo5qN-B1hE00FejhUiwus0M442lzMXAe4XL-IpD1GcMZ3O2HPmhbKgbbMc20vkUK_wlvEcXm8uI41Jy_HepEd1v3Gj6DdRKUmaXfLwICFviNpy60wI3tflKyl3jPeD1xc5f3fHQoml7Nq4W57b5MbWfdQH2~2?stat-id=5&test-tag=381530534894129&banner-sizes=eyI3MjA1NzYwODg5ODUyOTEzMCI6IjI0MHgzMDAifQ%3D%3D&format-type=118&actual-format=14&pcodever=866998&banner-test-tags=eyI3MjA1NzYwODg5ODUyOTEzMCI6IjI4MTQ3NDk4MTA5MzQyNiJ9&constructor-rendered-assets=eyI3MjA1NzYwODg5ODUyOTEzMCI6NjU3Mzd9&pcode-active-testids=864587%2C0%2C37&width=730&height=300" \t "_blank)**

**[250 000 ₽](https://yandex.ru/an/count/WX4ejI_zOoVX2Lcy0HqG07DTSIOQbKgbKga4mGJ1T4gvqmJwV2vtzco_S-SDTxv-n-iDTxZAvgzUg6kibHw3bfWeIZ1Wq77qF0wJw3tSwkGWTRONB9dIG_mIivgYezNIsO5Z6LA05iV2Le0MloiiG8lV4HQWnU-Y5A35xmOBqDvRGtA-9hWK8jq_O3jokY5q5PAbGofWz4oBPXZnd7W2pU1W5sWYexsLTvW7R_OJAY1r20Wxds-ORBmLdF0uk5qbql5njN5GOKHjZNZ3dH71mwP9kIqD5-o5AiJStlZCKEM9bfQMbbPNbWVIQd0OFX3010nRlgvyjyP5hFTOnA2Lu2z8aI5GidguCM6nC-GHHnOfZ8NqIR2bnHX5LJ4Bfki0Z5O2iG38B63DkZNrwEQtWXDUarl12Q-vVo1UNumXIFU7JJW2Vh05BgZ_jS05zRqMkA0-Dm0enhzB7RTyBKvu-BDInorCytIFMVxWnp8bo-m47KMu19SwpIHt7jED7Rn9kkZzqrbVHqZ7vyrqe2yBC1aPvSaUReUtxCUq1niGXCo5qN-B1hE00FejhUiwus0M442lzMXAe4XL-IpD1GcMZ3O2HPmhbKgbbMc20vkUK_wlvEcXm8uI41Jy_HepEd1v3Gj6DdRKUmaXfLwICFviNpy60wI3tflKyl3jPeD1xc5f3fHQoml7Nq4W57b5MbWfdQH2~2?stat-id=5&test-tag=381530534894129&banner-sizes=eyI3MjA1NzYwODg5ODUyOTEzMCI6IjI0MHgzMDAifQ%3D%3D&format-type=118&actual-format=14&pcodever=866998&banner-test-tags=eyI3MjA1NzYwODg5ODUyOTEzMCI6IjI4MTQ3NDk4MTA5MzQyNiJ9&constructor-rendered-assets=eyI3MjA1NzYwODg5ODUyOTEzMCI6NjU3Mzd9&pcode-active-testids=864587%2C0%2C37&width=730&height=300" \t "_blank)**

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1. *функциональные*. Применяются, как правило, для машинного моделирования той или иной проблематики. Имеют в составе:

* проблемно-ориентированные (GPSS). Моделируют систему с помощью последовательности событий. Применяются, в частности, при проектировании вычислительных комплексов;
* объектно-ориентированные (Форт). Имеют встроенные средства для моделирования новых объектов программирования;
* логико-ориентированные (Prolog). Отдельно описываются правила предметной области, по которым затем выводятся новые факты.

**[Читайте также:  Динамическое программирование свойства задачи](https://laptopprocessors.ru/dinamicheskoe-programmirovanie-svoystva-zadachi/" \t "_blank)**

**Системы программирования** включают:

1. интегрированную среду разработчика программы, состоящую, в частности, из текстового редактора, позволяющего создавать и корректировать исходные тексты программ, средств поддержки интерфейса программиста с системными средствами для выполнения различных сервисных функций (например, сохранения или открытия файла);
2. транслятор – программу, переводящую исходный текст во внутреннее представление компьютера;
3. отладчик – программу для трассировки и анализа выполнения прикладных программ. Позволяет отслеживать выполнение программы в пооператорном режиме, идентифицировать место и вид ошибок в программе, наблюдают за изменением значений переменных, выражений и т.д.;
4. компоновщик – программа для подготовки прикладной программы к работе в конкретных адресах основной памяти компьютера;
5. справочные системы.

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**[Все 2-ые квартиры от застройщика! Ипотека 3,9%](https://yandex.ru/an/count/WVqejI_zOoVX2Lcg0NqF07ERQIOQbKgbKga4mII1qevofmdq-LpkxDb-vyuRxdpzZjSRxd2LpL-z81X3frGcHZN9YG0067GSFRRhxgi9dJVjYCxMHnaaCkbtThYVTRHQEZjmB4CAqE9Os0hGudU51MZnEy82jFXTb0Aq-DrW0LedputZJsWUGm3RlJKavsj2ofC3zCyF2ZbT5tY0NkcG2XWz43nmfCHpuWaqWuDTqiZAVIbmFjymsNWhEE5H0R7YQkEIgFm8KYFUS6T4yB1fKcvBmmLxeGenjpS-dsXfQMbfTGNmXO7DrvNlrhY8zHwB6BGI_0KfCWHALWyt9YnsXZpYo2852r1NTZ7afWHRNA2uSe1Y5anN0h40o2nWpRerzUZcju8JNfDRmGclkLSu1tvnqLpV3o_PZ4JvO9qofl_LAMFwNfqofizDWAtjxpugClorFYeo_BC-AZBCD0VmWsQIEu_fHfofiKbw_tJMrn5sKNapyywNFPaEDl8EBjcFQG_UcL8uLlHV3eW8UHCJ4KAap6kzbLoWpiHdVUGFh33Q21HnhbGgbLQc2GzikapvoGZNia9ARYG85_pv6fCLS7atKZJorb789JYGQ68Pba6gscLhpjg9aiX7ytREEyIDGyA5is6c3Iro8fd7Kr5WJBzcgmPPdu2yeX9MIYUH5W00~2?stat-id=5&test-tag=381530534894129&banner-sizes=eyI3MjA1NzYwNjMwOTcxOTUwOSI6IjI0MHgzMDAifQ%3D%3D&format-type=118&actual-format=14&pcodever=866998&banner-test-tags=eyI3MjA1NzYwNjMwOTcxOTUwOSI6IjI4MTQ3NDk4MTA5MzQyNyJ9&constructor-rendered-assets=eyI3MjA1NzYwNjMwOTcxOTUwOSI6NjU3Mzd9&pcode-active-testids=864587%2C0%2C37&width=730&height=300" \t "_blank)**

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[Узнать больше](https://yandex.ru/an/count/WVqejI_zOoVX2Lcg0NqF07ERQIOQbKgbKga4mII1qevofmdq-LpkxDb-vyuRxdpzZjSRxd2LpL-z81X3frGcHZN9YG0067GSFRRhxgi9dJVjYCxMHnaaCkbtThYVTRHQEZjmB4CAqE9Os0hGudU51MZnEy82jFXTb0Aq-DrW0LedputZJsWUGm3RlJKavsj2ofC3zCyF2ZbT5tY0NkcG2XWz43nmfCHpuWaqWuDTqiZAVIbmFjymsNWhEE5H0R7YQkEIgFm8KYFUS6T4yB1fKcvBmmLxeGenjpS-dsXfQMbfTGNmXO7DrvNlrhY8zHwB6BGI_0KfCWHALWyt9YnsXZpYo2852r1NTZ7afWHRNA2uSe1Y5anN0h40o2nWpRerzUZcju8JNfDRmGclkLSu1tvnqLpV3o_PZ4JvO9qofl_LAMFwNfqofizDWAtjxpugClorFYeo_BC-AZBCD0VmWsQIEu_fHfofiKbw_tJMrn5sKNapyywNFPaEDl8EBjcFQG_UcL8uLlHV3eW8UHCJ4KAap6kzbLoWpiHdVUGFh33Q21HnhbGgbLQc2GzikapvoGZNia9ARYG85_pv6fCLS7atKZJorb789JYGQ68Pba6gscLhpjg9aiX7ytREEyIDGyA5is6c3Iro8fd7Kr5WJBzcgmPPdu2yeX9MIYUH5W00~2?stat-id=5&test-tag=381530534894129&banner-sizes=eyI3MjA1NzYwNjMwOTcxOTUwOSI6IjI0MHgzMDAifQ%3D%3D&format-type=118&actual-format=14&pcodever=866998&banner-test-tags=eyI3MjA1NzYwNjMwOTcxOTUwOSI6IjI4MTQ3NDk4MTA5MzQyNyJ9&constructor-rendered-assets=eyI3MjA1NzYwNjMwOTcxOTUwOSI6NjU3Mzd9&pcode-active-testids=864587%2C0%2C37&width=730&height=300)

**Инструментальная среда пользователя** – специальные средства, встроенные в ППП:

1. библиотеки функций, процедур, объектов и методов обработки;
2. макрокоманды;
3. программные модули-вставки;
4. конструкторы экранных форм и отчетов;
5. языки запросов высокого уровня.

Обращает на себя внимание обилие средств, относящихся к инструментарию технологии программирования (см. рис. 10.2). Это связано со сложностью разработки программного продукта. Традиционная схема проектирования программы рассмотрена далее.

[Источник](https://studfile.net/preview/7169028/page:37/)

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