

Electromechanical testing machines series LabTest 6.03 - 6.05 E.2

The LabTest E.2 series electromechanical testing frames with a capacity of up to 5 kN are ideal for static tests in tension, compression, bending and torsion with continuous, static and low-cycle loading. These machines are widely used in testing materials and components where there is both small and large sample length.

Configurability and flexibility are the main advantages of this series. There are four basic test lengths and four basic workspace widths, which are available in desktop and rack versions with integrated or external measuring and control electronics. For maximum flexibility, one or optionally two test areas can be used.

For testing materials at different temperatures, LabTest E.2 testing machines can be equipped with a temperature chamber that allows tests to be performed under specific temperature conditions. This fully digital test system with high precision includes automated computer control of test methods, which not only simplifies operation, but also greatly improves work efficiency.

Safety and reliability are ensured by the mechanical and electronic protection of the test frame against overload, run-over and impact, which contributes to the long service life of the device. The LabTest E.2 series testing machines are thus the ideal tool for reliable and precise material testing in various industrial applications.

Versatility, accuracy, repeatability and performance are our priorities...





Industry engineering, plastics, construction, automotive, research institutions and schools, etc.

LabTest 6.050



Every small detail matters...

Key features and benefits of the E.2 series

We use new technologies and emphasize safety...



Trial frames

The LabTest test frame is designed for maximum robustness and accuracy, ensuring reliable performance in a wide range of tests. Its high rigidity and precise crossbeam guidance guarantee coaxiality, high static and dynamic load carrying capacity and resistance to off-axis loads. The frame uses a linear guide with a profile rail and a preloaded carriage. The vertical movement of the crossbar is controlled by ball screws with an integrated lubrication system, which ensure accurate and repeatable positioning.

Force sensors

In our LabTest testing machines, we use LTx Force force sensors of our own production as well as sensors from renowned manufacturers, which can be calibrated in accordance with ČSN EN ISO 7500-1 and ASTM E4-21 standards. All force transducers have several key features in common: tensile and compressive measurement, high accuracy – accuracy class 0.02 to 0.05, extreme overload capacity of up to 100% of the nominal force. Each force transducer is equipped with an EEPROM that allows automatic identification of the load cell, storage of calibration constants and linearization at multiple points for tension and compression.

Powerful and precise DC servo drive

LabTest testing machines are equipped with powerful, dynamic and maintenance-free DC servo drives, which provide exceptional accuracy and reliability during testing. These drives ensure consistent speed even at extremely low values, down to 0.005 mm/min, which is essential for performing high-precision tests. With a high-resolution feedback encoder, these drives provide exceptional positioning accuracy and motion stability even at very low speeds, guaranteeing a fast and accurate response to changes during testing.

Measuring and control electronics

LabTest testing machines are equipped with powerful measuring and control electronics that ensure precise control of the tests. Two variants are available: EDCi2Ox for static applications with a maximum test frequency of 5 Hz and a data communication rate of 2.5 kHz. It has 3 external slots (expandable to 16) and an effective tensile/compression resolution of ±1,000,000 pieces. The electronics support automatic sensor identification, tension/compression linearization, and zero force correction. The PC interface includes USB 3.0 and Ethernet 10/100 Mbit. The electronics meet CE standards and include ECO

Remote control of the machine

The remote control of LabTest testing machines ensures high comfort and flexibility in the control of test processes. We offer a variety of actuator variants, including RMCi6, RMCi7, RMCi10 models. All controllers are designed with ergonomics in mind according to the ČSN EN 614-1+A1 standard, which ensures easy and comfortable use. Users can set any speed and perform test crossbar stepping directly on the controller. This approach increases the flexibility and efficiency of testing, while at the same time paying attention to ergonomics and operator comfort (controllers are not part of the basic range).

Touch monitor for machine control

LabTest testing machines can be integrated touch monitors that are part of the machine. The monitors are placed on a special hinge, allowing easy adjustment in both horizontal and vertical positions. The monitors run Test&Motion+ software with a virtual machine controller, which replaces the need for external RMCi controllers. This innovation ensures more comfortable operation and increases user comfort.



It is included with every LabTest testing machine and is designed to increase productivity and quality testing. This intuitive software allows tests to be performed efficiently and accurately with a customizable environment for measuring the mechanical properties of materials. The user-friendly interface on the LCD touchscreens makes operation easy. It supports international standards (EN, ISO, DIN, ASTM, GOST) and allows the creation and management of test methods for different types of tests. It provides instant and accurate results, facilitates integration with automation systems, and offers easy export



Testing accessories

LabTest testing machines are designed with flexibility and adaptability in mind, allowing for easy integration of different types of accessories. The most commonly used include VIDEO extensometers for non-contact measurement of deformations, temperature chambers and high-temperature furnaces for metal testing according to the ČSN EN ISO 6892-2 standard. These components allow tests to be carried out at various temperatures, including extremely high. Protective safety covers, designed in accordance with the EN ISO 14120 standard, ensure a safe working environment and operator protection.











Every small detail matters...

Specification of testing machines LabTest 6.030.1.xx – D412 mm

| Ratings | Units | LabTest 6.030.1.00 | LabTest 6.030.1.10 | LabTest 6.030.1.20 | LabTest 6.030.1.30 |
|---|--------|--|---------------------------|--------------------------|-----------------------|
| Product code | | 1.05010017 | 1.05010117 | 1.05010217 | 1.05010317 |
| Test force | Cn | З | З | З | З |
| Machine configuration | | Two-colum | n table or stand design v | with internal or externa | lelectronics |
| Measurement accuracy | | Better th | an +/- 0.5% read down | to 1/1000th of load cel | l capacity |
| Workspace | | | | | |
| Width of the working area (D) | mm | 412 | 412 | 412 | 412 |
| Test area height – Iower (E1) | mm | 510 | 1110 | 1610 | 1910 |
| Test Compartment Height - Upper (E2) 1 | mm | 520 | 1120 | 1620 | 1920 |
| Trial frame - tabletop version | | | | | |
| Machine height - benchtop version (A) | mm | 900 | 1500 | 2000 | 2300 |
| Machine width with integrated electronics (B) – MI version – desktop version | mm | 816 | 816 | 816 | 816 |
| Machine width with external electronics (B) – MO ² version | mm | 945 | 945 | 945 | 945 |
| Machine depth - benchtop version (C) | mm | 543 | 543 | 543 | 543 |
| Trial frame - rack version | | | | | |
| Machine height – rack version (A) | mm | 1170 1520 | 1760 2110 | 2160-2710 | 2960 3310 |
| Machine width with integrated electronics (B) – MI version – stand version | mm | 816 | 816 | 816 | 816 |
| Machine width with external electronics (B) – MO² version | mm | 974 | 974 | 974 | 974 |
| Machine depth - rack version (C) | | 780 | 780 | 780 | 780 |
| Electric drive | | | | | |
| Crossbar speed – min | mm/min | 0,005 | 0,005 | 0,005 | 0,005 |
| Crossbar speed – max ³ | mm/min | 1200 | 1200 | 1200 | 1200 |
| Crossbar speed – return³ | mm/min | 1200 | 1200 | 1200 | 1200 |
| Precision speed control | % | +/- 0,5 | +/- 0,5 | +/- 0,5 | +/- 0,5 |
| Position repeatability | μm | ±2 | ±2 | ±2 | ±2 |
| Machine drive differentiation | μm | 0,066 | 0,066 | 0,066 | 0,066 |
| Cycle time | Hz | 2500 | 2500 | 2500 | 2500 |
| Engine type | | High Torque DC Servo Motor | | | |
| Feedback Position Measurement | | IRC encoder A, B imp, TTL | | | |
| Controller | | 40 Fully digital, communication interface EtherCAT, CAN open | | | |
| Electrical connection | | | | | |
| Supply voltage/frequency | V/Hz | | 115 or 230/5 | 0-60/1 phase | |
| Machine power consumption | Kva | 0,4 | 0,4 | 0,4 | 0,4 |
| Other parameters | | | | | |
| The basic weight of the machine without | Kg | 88 | 98 | 108 | 115 |
| Machine noise at V max ⁴ | dB | 67 | 67 | 67 | 67 |
| Color combination | RAL | 1015, 5015 | | | |
| Interface to PC ⁵ | | USB, Ethernet | | | |
| Environmental conditions | | | | | |
| Working Environment Temperature | °C | | +10. | +35 | |
| Humidity of the working environment | % | < 00 | | | |

¹ The upper working space is not in the foundation of the testing machine (as, accessory)

² Measuring and control electronics are located on a swivel joint
 ³ If a protective cover is not included in the testing machine, the return test speed is limited in accordance with EN ISO 12100 and EN ISO 14120
 ⁴ The measurement of machine noise is in accordance with the ČSN EN ISO 3745 standard - Acoustics - Determination of sound power levels ...



Specification of testing machines LabTest 6.030.1.xx - D512 mm

| Ratings | Units | LabTest 6.030.1.11 | LabTest 6.030.1.21 | LabTest 6.030.1.31 |
|---|--------|--|---------------------------------|----------------------|
| Product code | | 1.05010417 | 1.05010517 | 1.05010617 |
| Test force | Cn | 3 | З | З |
| Machine configuration | | Two-column table o | r stand design with internal or | external electronics |
| Measurement accuracy | | Better than +/- 0 | .5% read down to 1/1000th of | load cell capacity |
| Workspace | | | | |
| Width of the working area (D) | mm | 512 | 512 | 512 |
| Test area height – Iower (E1) | mm | 1110 | 1610 | 1910 |
| Test Compartment Height - Upper (E2) 1 | mm | 1120 | 1620 | 1920 |
| Trial frame - tabletop version | | | | |
| Machine height – benchtop version (A) | mm | 1500 | 2000 | 2300 |
| Machine width with integrated electronics (B) – MI version – desktop version | mm | 916 | 916 | 916 |
| Machine width with external electronics (B) – MO ² version | mm | 1045 | 1045 | 1045 |
| Machine depth - benchtop version (C) | mm | 543 | 543 | 543 |
| Trial frame - rack version | | | | |
| Machine height – rack version (A) | mm | 1760 2110 | 2160-2710 | 2960 3310 |
| Machine width with integrated electronics (B) – MI version – stand version | mm | 916 | 916 | 916 |
| Machine width with external electronics (B) – MO ² version | mm | 1074 | 1074 | 1074 |
| Machine depth - rack version (C) | | 780 | 780 | 780 |
| Electric drive | | | | |
| Crossbar speed – min | mm/min | 0,005 | 0,005 | 0,005 |
| Crossbar speed – max³ | mm/min | 1200 | 1200 | 1200 |
| Crossbar speed – return³ | mm/min | 1200 | 1200 | 1200 |
| Precision speed control | % | +/- 0,5 | +/- 0,5 | +/- 0,5 |
| Position repeatability | μm | ±2 | ±2 | ±2 |
| Machine drive differentiation | μm | 0,066 | 0,066 | 0,066 |
| Cycle time | Hz | 2500 | 2500 | 2500 |
| Engine type | | High Torque DC Servo Motor | | |
| Feedback Position Measurement | | IRC encoder A, B imp, TTL | | |
| Controller | | 4Q Fully digital, communication interface EtherCAT, CAN open | | |
| Electrical connection | | | | |
| Supply voltage/frequency | V/Hz | | 115 or 230/50-60/1 phase | |
| Machine power consumption | Kva | 0,4 | 0,4 | 0,4 |
| Other parameters | | | | |
| The basic weight of the machine without | Kg | 113 | 123 | 130 |
| Machine noise at V max ⁴ | dB | 67 | 67 | 67 |
| Color combination | RAL | | 1015, 5015 | |
| PC interface | | | USB, Ethernet | |
| Environmental conditions | | | | |
| Working Environment Temperature | °C | | +10+35 | |
| Humidity of the working environment | % | | <90 | |

¹ The upper working space is not in the foundation of the testing machine (as, accessory)

² Measuring and control electronics are located on a swivel joint

^a If a protective cover is not included in the testing machine, the return test speed is limited in accordance with EN ISO 12100 and EN ISO 14120 ^a The measurement of machine noise is in accordance with the ČSN EN ISO 3745 standard - Acoustics - Determination of sound power levels ...



Every small detail matters...

Specification of testing machines LabTest 6.050.1.xx – D412 mm

| Ratings | Units | LabTest 6.050.1.00 | LabTest 6.050.1.10 | LabTest 6.050.1.20 | LabTest 6.050.1.30 |
|---|--------|--|---------------------------|--------------------------|-----------------------|
| Product code | | 1.05010717 | 1.05010817 | 1.05010917 | 1.05011017 |
| Test force | Cn | 5 | 5 | 5 | 5 |
| Machine configuration | | Two-colum | n table or stand design v | with internal or externa | lelectronics |
| Measurement accuracy | | Better th | an +/- 0.5% read down | to 1/1000th of load cel | l capacity |
| Workspace | | | | | |
| Width of the working area (D) | mm | 412 | 412 | 412 | 412 |
| Test area height – lower (E1) | mm | 510 | 1110 | 1610 | 1910 |
| Test Compartment Height - Upper (E2) 1 | mm | 520 | 1120 | 1620 | 1920 |
| Trial frame - tabletop version | | | | | |
| Machine height – benchtop version (A) | mm | 900 | 1500 | 2000 | 2300 |
| Machine width with integrated electronics (B) – MI version – desktop version | mm | 816 | 816 | 816 | 816 |
| Machine width with external electronics (B) – MO ² version | mm | 945 | 945 | 945 | 945 |
| Machine depth - benchtop version (C) | mm | 543 | 543 | 543 | 543 |
| Trial frame - rack version | | | | | |
| Machine height – rack version (A) | mm | 1170 1520 | 1760 2110 | 2160-2710 | 2960 3310 |
| Machine width with integrated electronics (B) – MI version – stand version | mm | 816 | 816 | 816 | 816 |
| Machine width with external electronics (B) – MO² version | mm | 974 | 974 | 974 | 974 |
| Machine depth - rack version (C) | | 780 | 780 | 780 | 780 |
| Electric drive | | | | | |
| Crossbar speed – min | mm/min | 0,005 | 0,005 | 0,005 | 0,005 |
| Crossbar speed – max³ | mm/min | 600 | 600 | 600 | 600 |
| Crossbar speed – return³ | mm/min | 600 | 600 | 600 | 600 |
| Precision speed control | % | +/- 0,5 | +/- 0,5 | +/- 0,5 | +/- 0,5 |
| Position repeatability | μm | ±2 | ±2 | ±2 | ±2 |
| Machine drive differentiation | μm | 0,026 | 0,026 | 0,026 | 0,026 |
| Cycle time | Hz | 2500 | 2500 | 2500 | 2500 |
| Engine type | | High Torque DC Servo Motor | | | |
| Feedback Position Measurement | | IRC encoder A, B imp, TTL | | | |
| Controller | | 4Q Fully digital, communication interface EtherCAT, CAN open | | | |
| Electrical connection | | | | | |
| Supply voltage/frequency | V/Hz | | 115 or 230/5 | 0-60/1 phase | |
| Machine power consumption | Kva | 0,4 | 0,4 | 0,4 | 0,4 |
| Other parameters | | | | | |
| The basic weight of the machine without | Kg | 88 | 98 | 108 | 115 |
| Machine noise at V max ⁴ | dB | 67 | 67 | 67 | 67 |
| Color combination | RAL | 1015, 5015 | | | |
| Interface to PC ⁵ | | USB, Ethernet | | | |
| Environmental conditions | | | | | |
| Working Environment Temperature | °C | | +10 | . +35 | |
| Humidity of the working environment | % | <90 | | | |

¹ The upper working space is not in the foundation of the testing machine (as, accessory)

² Measuring and control electronics are located on a swivel joint
 ³ If a protective cover is not included in the testing machine, the return test speed is limited in accordance with EN ISO 12100 and EN ISO 14120
 ⁴ The measurement of machine noise is in accordance with the ČSN EN ISO 3745 standard - Acoustics - Determination of sound power levels ...



Specification of testing machines LabTest 6.050.1.xx - D512 mm

| Ratings | Units | LabTest 6.050.1.11 | LabTest 6.050.1.21 | LabTest 6.050.1.31 |
|---|--------|--|---------------------------------|----------------------|
| Product code | | 1.05011117 | 1.05011217 | 1.05011317 |
| Test force | Cn | 5 | 5 | 5 |
| Machine configuration | | Two-column table o | r stand design with internal or | external electronics |
| Measurement accuracy | | Better than +/- 0 | .5% read down to 1/1000th of | load cell capacity |
| Workspace | | | | |
| Width of the working area (D) | mm | 512 | 512 | 512 |
| Test area height – Iower (E1) | mm | 1110 | 1610 | 1910 |
| Test Compartment Height - Upper (E2) 1 | mm | 1120 | 1620 | 1920 |
| Trial frame - tabletop version | | | | |
| Machine height – benchtop version (A) | mm | 1500 | 2000 | 2300 |
| Machine width with integrated electronics (B) – MI version – desktop version | mm | 916 | 916 | 916 |
| Machine width with external electronics (B) – MO ² version | mm | 1045 | 1045 | 1045 |
| Machine depth - benchtop version (C) | mm | 543 | 543 | 543 |
| Trial frame - rack version | | | | |
| Machine height – rack version (A) | mm | 1760 2110 | 2160-2710 | 2960 3310 |
| Machine width with integrated electronics (B) – MI version – stand version | mm | 916 | 916 | 916 |
| Machine width with external electronics (B) – MO ² version | mm | 1074 | 1074 | 1074 |
| Machine depth - rack version (C) | | 780 | 780 | 780 |
| Electric drive | | | | |
| Crossbar speed – min | mm/min | 0,005 | 0,005 | 0,005 |
| Crossbar speed – max³ | mm/min | 600 | 600 | 600 |
| Crossbar speed – return³ | mm/min | 600 | 600 | 600 |
| Precision speed control | % | +/- 0,5 | +/- 0,5 | +/- 0,5 |
| Position repeatability | μm | ±2 | ±2 | ±2 |
| Machine drive differentiation | μm | 0,026 | 0,026 | 0,026 |
| Cycle time | % | +/- 0,5 | 2500 | 2500 |
| Engine type | | High Torque DC Servo Motor | | |
| Feedback Position Measurement | | IRC encoder A, B imp, TTL | | |
| Controller | | 4Q Fully digital, communication interface EtherCAT, CAN open | | |
| Electrical connection | | | | |
| Supply voltage/frequency | V/Hz | | 115 or 230/50-60/1 phase | |
| Machine power consumption | Kva | 0,4 | 0,4 | 0,4 |
| Other parameters | | | | |
| The basic weight of the machine without | Kg | 113 | 123 | 130 |
| Machine noise at V max ⁴ | dB | 67 | 67 | 67 |
| Color combination | RAL | | 1015, 5015 | |
| PC interface | | | USB, Ethernet | |
| Environmental conditions | | | | |
| Working Environment Temperature | °C | | +10+35 | |
| Humidity of the working environment | % | | <90 | |

¹ The upper working space is not in the foundation of the testing machine (as, accessory)

² Measuring and control electronics are located on a swivel joint

^a If a protective cover is not included in the testing machine, the return test speed is limited in accordance with EN ISO 12100 and EN ISO 14120 ^a The measurement of machine noise is in accordance with the ČSN EN ISO 3745 standard - Acoustics - Determination of sound power levels ...



Version types of LabTest testing machines 6.030 and 6.050.1.xx



Informative image



Electronics of LabTest series machines

| Ratings | Units | Parameters |
|--|------------|---|
| Electronics for static applications and low cycle | fatigue | EDCi20x (2.001030117) |
| Number of external slots (expandable to 16) | - | 3 |
| Speed of data communication with a PC | Khz | 2,5 |
| Maximum test frequency of the machine | Hz | 5 |
| Electronics for static and dynamic applications | | EDCi70x (2.001050117) |
| Number of external slots (expandable to 16) | | 8 |
| Speed of data communication with a PC | Khz | 10 |
| Maximum test frequency of the machine | Hz | 300 |
| Other common parameters | | |
| Real-time channel synchronization | | YES |
| Bit accuracy of internal controller | bit | 64 |
| Control loop speed | Khz | 2,5 |
| Adjustable system time | μs | 400/500/600 1000 |
| Internal processing of measured analog quantities | bit | 32 |
| Calculated Resolution – Tension/Compression | bit | 21 |
| Effective resolution in tension / compression at the | Tick marks | ± 1,000,000 (100ms) |
| Standard resolution in tension / compression | Tick marks | ± 250,000 (20ms) |
| Speed of reading of measured analog quantities | Khz | 20 |
| PC interface | | USB 3.0, Ethernet 10/100 Mbit |
| Measurement accuracy class | | 0.5/1, depending on load cell, calibration of load cells in accordance with EN ISO 7500-1, ASTM E4-21 |
| Linearization of tension/compression sensors | | YES |
| Automatic sensor identification | | YES |
| Detection and LOG of exceeding the max. force F of | | YES |
| Zero Force Correction | | YES – automatically |
| Possibility to connect these input channels and | | iDCA – Strain Gauges Multi Analog ICs Digital ICs Analogue ± 10 V |
| | | iCFA – LVDT and 10 V analogue ± strain gauges |
| | | iINC – two incremental (A/B/R) or SSI interfaces |
| | | iADA – four analog outputs and four analog inputs (+/- 10 V) |
| | | iIO - 24 V DC IO (8 outputs, 8 inputs) |
| | | iINCX – two incremental interfaces (A/B/R) with RS485 to MFX |
| Possibility to connect a remote control of the | | YES |
| Types of remote control | | RMCi6, RMCi7, RMCi10, Wireless Control LTW023 |
| ECO mode | | YES |
| E-Stop by | | ČSN EN ISO 13850 with monitoring |
| CE conformity | | pursuant to the Machinery Directive 2006/42/EC and 2023/1230 |
| Electrical connection | | |
| Supply voltage/frequency - external electronics - | V/Hz | 115 or 230/50-60/1 phase |
| Supply voltage/frequency - internal electronics - MI | V/DC | 24 |
| Other parameters | | |
| Basic dimensions of external electronics – MO | mm | 99 x 463 x 244 |
| Color combination of external electronics – MO | L | Alu, graphite grey |
| Environmental conditions | | |
| Working Environment Temperature | °C | +10 +35 |
| Humidity of the working environment | % | <90 |



Everv small detail matters...

The elements that characterize us...

We offer everything from development to implementation and listen to your needs...



Warranty and post-warranty service

From the moment our machines are delivered, our commitment does not end. We pride ourselves on standing behind our products and customers even after they leave our company. In order to ensure maximum satisfaction and peace of mind with our devices, we provide a complete online warranty and post-warranty service. Thanks to our dedicated team of experts, we are here to provide you with the best possible support throughout the entire lifecycle of our products. With our online warranty and post-warranty service, you are safe, aware of our support whenever you need it.

Ecological approach

We are proud to be a company that not only develops and manufactures quality testing machines and equipment, but also takes the environment seriously. For us, ecology is not just a phrase, but an essential aspect of our business. We are committed to minimal environmental impact and sustainable working practices. Our commitment to the environment does not end with the possession of the ISO 14001:2016 certificate. We believe that every step towards sustainability is crucial for the future of our planet.



Simple operation

In the company, our company emphasizes quality training and training for the operation of our machines. We believe that expertise and ease of use are key factors in achieving optimal results and customer satisfaction. When developing our devices, we focus not only on performance and innovation, but also on ease of use. This allows for quick adaptation and efficient work even for less experienced users. We are here to ensure that our technologies are not only powerful, but also easy to use for all users.



Reliability, accuracy and repeatability of measurements

With LabTest test machines, accuracy and repeatability of force and displacement measurements are our top priority. We have combined these key aspects with high dynamics of electronics to guarantee a more affordable and efficient way to set up our devices. Thanks to the innovative approach to electronics in our testing machines, we have achieved excellent accuracy and repeatability in the testing process. The reliability of our equipment is important not only for research and development, but also for industrial and testing applications.



Versatility and versatility

Our LabTest testing machines have a double advantage: versatility and intuitive operation, which brings efficiency during the tests themselves. By combining our high-quality testing machines with highly functional accessories, we offer versatility for a wide range of testing needs. This flexibility allows our customers to perform different types of tests and measurements with one device, which is an economic and practical benefit. Thanks to these features, you can rely on precise results and trouble-free operation in everyday practice.



Safety at the highest level

We strongly promote safety at the highest level in accordance with the latest directives 2006/42/EC and 2023/1230 and industry standards such as IEC 60947. Every product we create is the result of many years of experience, research and experimentation in the field of mechanical testing of materials. Our compliance with standards is documented by the EC and EU Declaration of Conformity, which is why we leave nothing to chance.



Mechanical resistance and maintenance-free operation

When developing products, we emphasize that LabTest machines have robustness, rigidity, long service life, mechanical resistance and maintenance-free operation - these are our key priorities. Our offer includes professional engineering and consulting services, which harmoniously blend in the design of systems and the implementation of the tests themselves.



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