



**Software
Consulting**

Higher productivity for your software environment

With Software Consulting from s+c you can raise the productivity of your currently installed software environment. We can advise you in all those software areas where, because of your specific requirements, standard software can't offer you an optimum solution, and you need it tailored to your individual needs. In this way, you can continue to use your tried and tested software tools, but get much more out of them by letting us add creative and efficient ways of using them.

The Software Consulting portfolio

Software Consulting from s+c helps you satisfy your individual needs, take a more efficient approach to development and increase the productivity of your software and your staff significantly.

We do this by

- » developing new and individual software for your processes,
- » extending and maintaining your inhouse solutions
- » linking and integrating applications to create an individual development process for you.

What we can do for you

We focus on the optimization of your development and test environments: For example, we can provide pre- and postprocessors for the interface between CAD and CAE. Or we can migrate your inhouse software so that it can be used on Linux or Windows workstations. We can also provide intuitive and easy-to-use GUIs. And we can handle highly specialized test environments so that you can quickly get access to the test results that are important for your product development.

How you can exploit our strengths

Our customers appreciate the high quality of our work: You know what you want, and we provide the solution in high quality code that will see you into the future. We've been programming software in the area of scientific engineering for many years. So we know exactly what needs to be done to get applications running smoothly in high-performance environments.

And we can also provide you with cross-industry best-practices solutions for Web services, XML applications, or databases. We give you professional software engineering with software design specifications and documentation, portable programming and thorough release management. Because of our many years experience in the CAx environment you can be sure you will get software whose design is ideally suited even to special technical requirements. We are not restricted to particular workstation platforms or development tools. So, without any limitations or restrictions, we can create for you the best-possible solution for your individual situation.



Software Consulting from science + computing: Project examples

Conversion of CATIA data into FEM data

In this project, s+c developed a converter that automatically translates construction data in CATIA format into FEM data for crash calculation. The software takes its input in the form of data attributes (such as dimensions or PID) from earlier construction states. The converter includes an easy-to-use graphical interface so that you can quickly describe the data to be converted and the conversion tasks to be performed.

Optimizing access to a PDM system

To enable engineers to prepare their calculation processes as quickly as possible, s+c developed a framework that allows to easily and simply extract data from a PDM system. The link was made such that the required data was automatically extracted for the corresponding calculation process. At the same time, users can, without difficulty, extend the solution for other future extractions.

Care and extension of solutions for ride and handling simulation

s+c maintains several solutions for ride and handling simulation that were developed by the customers themselves. In doing so, s+c - among other things - created links to additional modelings. s+c also created interfaces, for example, to HIL solutions on a wide variety of hardware platforms. Now the whole range of hardware can be addressed, from prototype hardware to standardized industry systems, from standard PCs to high-end visualization systems. For these projects, s+c also developed and implemented quality control concepts.

Migration and transfer of HIL test stand components

s+c have evaluated several HIL test environments. As a result, for cost and performance reasons, Unix systems that communicate with the test stand were replaced by Linux or Microsoft Windows PC workstations. s+c also handled the transfer of the installed software to the new platforms.

Main contractor for the replacement of a ride and handling test stand

As the main contractor, s+c coordinated the replacement of the visualization, control and regulation components of a ride and handling test stand. s+c was responsible for the entire project, from the creation of the concept to the implementation of the system. The system is based on Matlab/Simulink and is implemented using hardware provided by dSPACE.

Evaluation of a DDM system for semiconductor development

s+c analyzed and assessed the way a semiconductor development department worked with its design-data management system. Based on the results, s+c developed various optimization scenarios for extending the DDM system and making it more flexible, and also determined the cost-effectiveness of the various scenarios. The customer adopted the results of the evaluation as the basis for his decision to further develop its DDM.

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