IMMI – Distributed calculation in a network

Wölfel

Calculating projects optimally and efficiently

The greater the amount of project data, the longer the calculating times. Today's acoustic models have volumes nobody could have thought of a couple of years ago. The program system, IMMI, features optimized calculation parameters as well as three additional powerful functions. These functions allow calculating comprehensive projects optimally and efficiently.

Multi-Core – ACR – AUDINOM

- **Multi-Core:** The use of calculation kernels can be selected on the workstation computer as desired. This accelerates the calculation proportionally to the number of calculation kernels. Eight calculation kernels accelerate calculation by a factor of 8.

- **ACR – (Automated Cluster Calculation):** This function distributes the IMMI project over selected PCs in the network. Since the user can select the use of calculation kernels as desired, he/she will also have additional control options at hand. The complete processing power of the cluster is used for accelerating the calculation.

- **AUDINOM:** This function subdivides the IMMI project into segments and distributes them over a calculation cluster while using all ACC functions.

This feature further increases the capacity especially for large-scale projects, therefore considerably reducing calculating times.

IMMI-Calculator

In addition to the processing power of one computer, the processing power of other computers can be used as well. Often, there are powerful PCs in offices, which are used in part only or, at night, are not used at all. IMMI can activate any number of PCs desired via a local network. Every single computer can be activated such that IMMI is operated in the background, therefore not being affected by work during the day. IMMI accesses the full processing power of all computers only after staff members have left their PCs at the end of office hours.

What do you need?

The support of multi-core processors is offered in all IMMI expansion versions. The use of ACC and AUDINOM requires the Premium expansion version. The Plus expansion version allows optionally adding the ACC and AUDINOM functions. An IMMI Calculator is required for every additional computer in the network. Owing to our generous accretion of discount, prices are very favorable.

The three functions are uniformly created in the calculation dialog box and are available for all calculation types: reception points, facade levels and grids.

IMMI

Convincing advantages

- Use of any number of computers desired

- Utilization of the complete processing power

- Automatic or manual activation of calculation

- Automatic subdivision of the calculation over the calculation cluster

- Permanent monitoring with status display

- High data safety

Example: City of Salzburg

The overall project covers an area of 96 km^2. By using all of the functions (Multi-Core, ACR, AUDINOM) provided by IMMI calculation time will be cut down from 5 days to 2 hours.

Function	Calculating time
Optimized calculation setting	5 days
+ MultiCore (8 cores)	18 hours
+ ACC (additional PC with 8 cores)	10 hours
+ AUDINOM	2 hours

Booking calculating time

Insuffi cient processing power? Wölfel provides a powerful calculation cluster comprising more than 30 PCs. You can use this processing power for your large-scale projects! Just send us your project fi le after having checked it completely, and we will do the calculation for you. Please contact us to learn about the terms and conditions. The following applies: the more computers we use, the faster you will receive the result. Whether you decide on calculating your large-scale projects yourselves or on purchasing calculating time from us, we can offer you an interesting solution in either case.

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