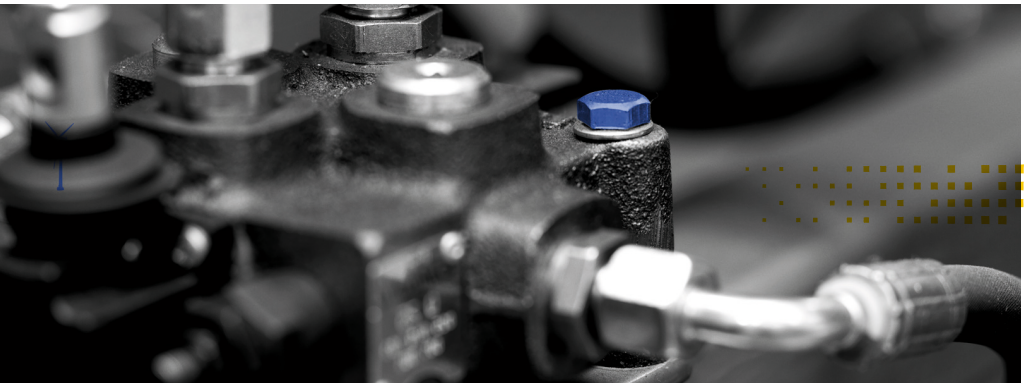
Configit®

Configit Modular Extension

Exploit modularity of your product models with the most powerful Virtual Table-based constraint solver ever



?kjĄcepĂIk`qh]nĂAtpajoekjĂeoĂ]jĂatpajoekjĂik`qhaĂpkĂ?kjĄcepĂLnk`q_pĂIk`ahanĂ]j`Ă?kjĄcepĂNqjpeiaĂ Inkre`ejcĂoqIIknpĂbknĂatIhkepejcĂik`qh]nepuĂejĂInk`q_pĂik`aho*ĂĘpĂ]qpki]pe_]hhuĂ`apa_poĂpdaĂejdanajpĂ modular structure in a product model and utilizes the structure to improve performance of the constraint okhranĂejĂpdaĂ_kjĄcqn]pkn*Ă>]oa`ĂkjĂpdaĕ`ajpeĄa`Ăik`qh]nepu(Ă]ĂoapĂkbĂoaI]n]paĂRenpq]hĂP]^haoĂ]naĂcajan]ĵa`Ă ^uĂpdaĂ?kjĄcepĂIk`qh]nĂ?kiIehan*ĂPdaoaĂp]^haoĂ]naĂpdajĂ_ki^ejaĂ]pĂnqjpeiaĂ^uĂpdaĂ?kjĄcepĂIk`qh]nĂ NqjpeiaĕpkĂk^p]ejĂpdaĂsahh)gjksjĂ^ajaĄpoĂkbĂ_kiIhapaĂ]j`ĂbqhhĂ`a`q_pekjĂejĂpdaĂ_kjĄcqn]pkn*

SepdĂ?kjĄcepĂIk`qh]nĂAtpajoekjĂranuĂh]ncaĂInk`q_pĂik`ahoĂ _]jĂabĄ_eajphuĂ^aĂ_kiIeha`Ă]j`Ă_kjĄcqna`7Ăik`ahoĂpd]pĂ otherwise would not be compilable or would require converting rules into functions in order to reduce the need for making deductions.

Con git Modular Extension contains the following components:

- Ă?kjĄcepĂIk`qh]nĂ?kiIehan
- Ă?kjĄcepĂIk`qh]nĂNqjpeia
- ĂĂP?kjĄcepĂIk`qh]nĂ=j]hupe_oĂ$bnkiĂ.,,5%

PdaĂik`qhaĂbkhhksoĂpdaĂnaha]oaĂo_da`qhaĂbknĂ?kjĄcepĂLnk`-uct Modeler.

Bene ts

- **Fully integrated.** The module is fully integrated into ConĄcepĂLnk`q_pĂIk`ahanĂbknĂa]ou]`]lp]pekjĂejpkĂateopejcĂ Ink`q_pĂik`ahejcĂskngąks*
- **Automatic modularity detection**. The module autoi]pe_]hhuĂ`apa_poĂik`qh]nepuĂ^]oa`ĂkjĂpdaĂnqhaoĂ`aĄja`ĂejĂ the product model. No manual effort is required to use pdaĂ?kjĄcepĂIk`qh]nĂ?kiIehan*
- **Improved performance and larger models.** The sizes of the generated modular Virtual Tables are typically much smaller than with the non-modular compiler. This gives largely improved performance at runtime and extends the range of models that can be immediately compiled.
- **Variable orders are less important.** Small modular Virtual Tables are typically generated directly from the default ordering.
- **Modularity beyond what is de ned.** The detected ik`qh]nepuĂeoĂpuIe_]hhuĂiq_dĂiknaĂĄja)cn]ejaĂpd]jĂpdaĂ modeled group structure in the product model allowing eiInkraiajpoĂ^aukj`ĂpdaĂ`aĄja`Ăik`qh]nĂopnq_pqnao*
- **Consistent runtime API***ĂPdaĂ?kjĄcepĂIk`qh]nĂNqjpeiaĂ d]oĂpdaĂo]iaĂ=LĘĂ]oĂpdaĂop]j`]n`Ănqjpeia*ĂĘpĂej_hq`aoĂ]hhĂ the core functions needed for determining valid domains, i]gejcĂqoanĂ]ooecjiajpo(ĂnaokhrejcĂ_kjąę_po(Ă]j`ĂoqlknpejcĂqoanĂejpanb]_aĂ_kjpn]_po*Ă=ĂbasĂbqj_pekjoĂ`alaj`oĂkjĂ having the full model compiled into one Virtual Table are pdanabknaĂjkpĂ]r]eh]^haĂejĂpdaĂIk`qh]nĂNqjpeia*
- **Analysis of modularity***ĂĂ?kjĄcepĂIk`qh]nĂ=j]hupe_oĂeoĂ]Ă component that generates analyses of the modularity of Ink`q_pĂik`aho*ĂĘpĂ]ooeopoĂejĂe`ajpebuejcĂsd]pĂl]npoĂkbĂpdaĂ model could be improved in order to increase modularity. $=r]eh]^haĂbnkiĂ.,,5*%

[1] Ă?kjĄcepĂ=+0Ă.,,4Ă