



dasa Applications is a suite of programs which is also suitable for platforms other than Dasa, such as other bucking systems or PC systems. The programs often have a connection to Dasa or closely related applications.

dasa Applications

■ OptimizationBuilder

 OptimizationBuilder builds and maintains optimization instructions for bucking systems on forest harvesters. The program manages information containing identification, tree species, grades, assortments, price matrices, demand matrices, limitation matrices, colour marking, etc. The program has an import function for .apm files, and a priority analysis between different assortments. The output is an .apt file. The program follows the StanForD standard.

■ ProductionReport

 Production Report reads a production file, .prd, and presents the statistics on the screen. Different windows with information for identifications, total volumes and log bills. The totals can be shown per operator or as a total for all operators. Selected information can be printed out.

The program has a function for summing numbers and volumes from several log bills in a single .prd file, or summing numbers and volumes from different .prd files.

■ FileTransfer

 FileTransfer transfers files between a PC and a non-PC data medium using the Kermit protocol. A non-PC data media could be a Dapt memory unit or a dasa380 memory card reader.

■ AssortmentBuilder

 AssortmentBuilder builds and maintains price matrices from a price vector per diameter class, or from a single basic price. Templates for lengths, diameters, grades, volume type, etc, can be defined for different tree species and assortments. The output is an .apm file, which can be used in OptimizationBuilder.

■ ProjectShell

 ProjectShell is a shell program for administrating the design and test work to examine whether a price list gives the correct result in a specific condition. ProjectShell uses the programs *OptimizationBuilder*, *ProductionReport* and *AssortmentBuilder* as sub-programs. *Aptan* from Skogforsk is used for simulation.

A project is defined with links to corresponding .apm, .apt and .prd files. Simulation is performed using the program aptan, where a price list (.apt file) is tested against a specific condition. The result is stored in a .prd file, which can be analysed using ProductionReport. Changes can be made to the instructions in AssortmentBuilder, with automatic updating of corresponding project files and a new simulation can be performed.

■ PriorityBuilder

 PriorityBuilder builds and maintains bucking instructions for Priority bucking logic in the dasa4 system. The instruction contains a table with the required lengths in priority order. The table also contains information on minimum and maximum diameters per length, colour marking and other relevant information. The output is an .apt file.

■ InstructionCompiler

 InstructionCompiler receives information for updating of identity, assortment or price information (.oai and .ap1 files). The program also creates optimization instructions for bucking systems (.apt files). The information is in accordance with the Finnish standard (Apteri).

■ OperationMonitor

 OperationMonitor generates production analyses for a machine, forest harvester or forwarder. Signals showing when the machine is active and producing are given by certain specific machine functions, which means that the program is often integrated with the bucking or control system on the machine. If the machine has been inactive for longer than a particular period of time (15 minutes), the operator must enter the reason (a code) before he can continue to operate the machine.

The stop could be caused by a repair, pause, transportation or similar. The program also stores volume information per operator in a database. Using a report function, information can be selected over a time period or per object. The output from the report function is a .drf file. The program follows the TSG and StanForD standards.

■ OperationReport

 OperationReport reads a .drf file and presents the information on a screen or printout. Information showing volumes, active production time with presentation of G0, G15 and all stops can be presented per driver or as a total. The program reads .drf files according to both the old StanForD and the new TSG and StanForD standards.

■ ForwarderVolume

 ForwarderVolume is a program for forwarders where the operator can register number of logs, volume, weight, and geographical position for different wood piles. The program can export a production file (.prl) according to the StanForD standard, which can then be used for transport planning.

*Dasa is a leading supplier of computerized control- and communication systems for heavy vehicles.
With high technical competence we develop and manufacture systems for control and information handling
together with complete applications for forest harvesting.*

