THE APPLICATIONS COMPONENT LIBRARY (GENERAL DESCRIPTIONS)

TYPE 514: THERMOSTAT CONTROLS

The Thermostat Controls utility program (ThermoSched.exe) and Type514 are used in conjunction with one another to define a set point schedule that stays the same regardless of the day of the week. A set point schedule consists of a heating set point and setback temperatures, a cooling set point and setup temperatures, and the hours during which they apply. While this documentation has been written using temperature set points as an example, it should be noted that there is nothing inherent about the ThermoSched program that forces it to be used only for temperatures. It should also be noted that the difference between Type520 and Type514 is that Type520 allows for differing schedules during weekdays, on Saturdays and on Sundays while Type514 applies the same schedule regardless of the day of the week.

TYPE 515: HEATING AND COOLING SEASON SCHEDULER

The Heating and Cooling Season Scheduler utility program (SeasonsScheduler.exe) and Type515 are used in conjunction with one another to input a heating/cooling season schedule. A heating/cooling schedule denotes which portions of the year when heating or cooling (or both) equipment may be utilized.

TYPE 516: MULTIPLE DAY SCHEDULER

The Multiple Schedules utility program (MultSched.exe) and TRNSYS Type516 are used in conjunction with one another to input schedules with a Weekday, Saturday, and Sunday basis. It should be noted that while temperature notation is used throughout this documentation, there is no inherent reason why Type516 cannot be used to schedule any type of data desired by the user. Type516 differs from Type517 only in that it allows for different schedules to be set for weekdays, Saturdays and Sundays. Type517 applies the same schedule regardless of the day of the week.

TYPE 517: SINGLE DAY SCHEDULER

The Daily Schedule utility program (Sched.exe) and TRNSYS Type517 are used in conjunction with one another to input a 24-hour schedule. The same schedule is repeated for every day of the simulation. It should be noted that while temperature notation is used throughout this documentation, there is no inherent reason why Type517 cannot be used to schedule any type of data desired by the user. Type517 differs from Type516 only in that it does not allows for different schedules to be set for weekdays, Saturdays and Sundays. Type517 applies the same schedule regardless of the day of the week.

TYPE 518: MONTHLY SCHEDULER

The Monthly Values utility program (MonthSched.exe) is used in conjunction with TRNSYS Type518 to input schedules that change on a monthly basis.

TYPE 519: HOLIDAY SCHEDULER

The Holiday Scheduler utility program (Scheduler.exe) and TRNSYS Type519 are used in conjunction with one another to input and read a holiday schedule. A holiday schedule denotes which days of the year are holidays. This type of schedule is very useful when trying the match the actual operation of a building or calibrate a simulation to measured data or when switching between “occupied” and “unoccupied” building schedules.

TYPE 520: MULTIPLE THERMOSTAT CONTROLS

The Multiple Thermostat Controls utility program (MultThermoSched.exe) and Type520 are used in conjunction with one another to define a set point schedule that changes based on a weekday, Saturday, and Sunday basis. A set point schedule consists of a heating set point and setback temperatures, a cooling set point and setup temperatures, and the hours during which they apply. While this documentation has been written using temperature set points as an example, it should be noted that there is nothing inherent about that MultThermoSched program that forces it to be used only for temperatures. It should also be noted that the difference between Type520 and Type514 is that Type520 allows for differing schedules during weekdays, on Saturdays and on Sundays while Type514 applies the same schedule regardless of the day of the week.