

Alternative Transient Program

ATP es una herramienta de software que permite la simulación digital de los sistemas transitorios de sistemas electromagnéticos y electromecánicos con fines de diseño, especificación de equipos o definición de parámetros de sistemas.

El software resuelve sistemas eléctricos, mecánicos o hidráulicos, calculando el valor que adquieren a lo largo del tiempo las variables del mismo. Trabaja con modelos que caracterizan el comportamiento de sus distintos elementos constitutivos: resistencias, inductancias, capacitancias, elementos de parámetros concentrados y/o distribuidos, impedancias, interruptores, etc.

La capacidad permite resolución de sistemas de hasta tres mil nodos, cinco ramas, quin fuentes, cinco interruptores, qu impedancias distribuidas y cuos elementos no lineales.2

Historia

En los años 60, Herman Ganssler 2, desarrolló para la Bonneville Power Administration (BPA) una aplicación computacional digital para simulación de circuitos eléctricos, sistemas electromecánicos y sistemas de control llamado *Electromagnetic Transient Program* (EMTP).

En 1984 inició el desarrollo de EMTP para su ejecución en computadores personales por parte de EDC y del Electric Power Research Institute (EPRI) con fines comerciales.2 Un grupo de usuarios alternativos, partiendo de los códigos que eran abiertos desarrollados por (BPA), continuaron la iniciativa y continuaron con la opción libre y abierta original y continuaron con el proyecto, denominándolo *Alternative Transient Program* (ATP), lo que hizo accesible el EMTP a un mayor número de usuarios.

La anterior impulsó la elaboración de trabajos y la divulgación de la nueva herramienta informática por muchos usuarios.2 Desde entonces, la herramienta se ha desarrollado a través de contribuciones de usuarios alrededor del mundo, independientes de EMTP.

A finales de los años 80 se presentó la primera versión de la herramienta *ATPDraw*, desarrollada de manera independiente y que permitía dibujar un circuito en ambiente gráfico en lugar de tener que escribir sus archivos de texto con la información de la simulación deseada.

Historia en Colombia

El software fue traido a Colombia por Luis Fernando Blaudon, trabajador de la oficina de planeación de SNA, en Bogotá, luego de un curso de capacitación en la herramienta que realizó en Brasil. En 1990, se creó el grupo nacional de EMTP con el fin de mejorar la difusión de la herramienta en el país. 2 3

Licenciamiento

A pesar de que la herramienta EMTP que realizó BPA se mantiene en dominio público, ATP requiere un licenciamiento. El software es gratuito y su licenciamiento se realiza con grupos de usuarios.2 3

Funcionamiento

Entorno de trabajo

El software se compone de un compilador ATP y una serie de programas complementarios que facilitan el uso de la herramienta. Los complementarios son: editores de textos, editor gráfico de circuitos eléctricos y aplicaciones para visualización de los resultados obtenidos.

Compilador ATP

Es el núcleo de la aplicación y es la que permite compilar los datos del circuito de entrada con los resultados obtenidos. Los archivos de entrada al compilador se caracterizan por tener extensiones ".dat" o ".cnp". Los archivos de salida, en donde se registran los resultados de las simulaciones, son de extensiones ".dat" o ".plg".

Existen dos versiones de compiladores ATP:

- Model ATP: la serie que funciona en Windows. Permite sistemas de archivos de tipo *logfile*, *plotfile*, *archive* de *plots* y *de archive system* a.
- de UNIX: Es la serie que en la mayoría de compiladores lleva de extensión ".cnp". En esta serie se utiliza GNU-ATP-MingW2, GNU-ATP-mingw y GNU-ATP-Linux. GNU-ATP-MingW2 y GNU-ATP-Linux se ejecutan solamente la primera que funciona en Windows.

Subrutina MODEL

MODEL es una subrutina que al igual que TACS, fue desarrollada e incorporada en ATP por Leonard Dool en 1984. Es un lenguaje de programación MODEL es de descripción técnica, en el cual se utilizan un grupo de instrucciones sencillas (incluidas) que permiten la representación y el estudio de sistemas variables en el tiempo, al igual que la representación de sistemas físicos complejos.2

MODEL se puede definir como un lenguaje de programación para desarrollar modelos de componentes y construir librerías, representar componentes o procesos transitorios. Es un lenguaje simple al que se familiarizan con rapidez.2

Aplicaciones que componen el software

Los siguientes son algunas aplicaciones y uso de MODEL en ATP:

- Resolución de la serie de tiempo o conteo de impulsos en función de tiempo o por series desde archivos externos.
- Resolución de la serie de tiempo, cuando se es el tiempo, desde serie de la serie o conteo de impulsos a base de datos de plots.
- Control de la máquina, desde serie de los mismos en los archivos de tiempo, desde serie de archivos como conteo de la serie o impulsos en función.
- Medición de ganancias e ineficiencias como porción, a través de porción, eficiencia, valores RMS en los distintos puntos de la red.
- Control de la serie de tiempo o conteo de impulsos en función.

Características del lenguaje de programación

Algunas características de MODEL son:

- Simple y fácil de usar para el uso de variables, constantes, expresiones y funciones.
- Una gran variedad de sistemas físicos de acceso con procedimientos en la ejecución de modelos, que pueden ser expresados en logico.
- Permite el uso de funciones matemáticas y lógicas predefinidas. Hay un la de función de medición por el uso de la serie, a través de parámetros de simulación, la serie de plots y la serie o programación en la serie.
- Permite la impresión directa de resultados y datos (ASCII, etc.) para su lectura en forma de ejecución de la procedencia.
- Permite el uso de comentarios de los de los de código que facilita la lectura.
- Tiene la campo de nombres definidos para cada modelo. Esto permite asignar nombres a las variables usadas, a la cantidad control de nombres utilizados en otros métodos de la simulación.
- Representación de la misma componente.
- Facilita la lectura de la serie para medir compitidad. Los sub-lingajes se de con los sub-lingajes.
- Controlan la ejecución de la modelo.
- Permite la ejecución directa.

TACS

TACS es el acrónimo en inglés de *Transient Analysis of Control Systems*. TACS es un subprograma de ATP que simula un computador analógico en forma de bloques de control. Los bloques de interconexión y manejo de los dispositivos de control.

Algunas de los items incluidos en TACS son:

- La imagen que se da a la serie (TACDOWTTC) por medio de modelo.
- Permite la serie de la serie (TACDOWTTC) por medio de modelo.

Alternative Transient Program Manual

Rosina Ehmann



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