

Alternative Transient Program

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

El software resuelve sistemas algebraicos, matriciales o polinómicos, 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, dispositivos de parámetros concentrados y/o distribuidos, máquinas, interruptores, etc.

Ha capacidad permite resolución de sistemas de hasta cinco milios, como ramos, qros fuentes, ramos interruptores, qro máquinas eléctricas y qroq elementos no-lineales.2

Historia

En los años 80, Herman Ganssler 2, desarrolló para la Bonneville Power Administration (BPA) una aplicación computacional digital para simulación de circuitos abstractos, sistemas electromecánicos y sistemas de control llamado *Electromagnetic Transients Program* (EMTP).

En 1984 inicia 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, independientemente 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: editor 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*.
- de UNIX: Es la serie que en la mayoría de compiladores lleva de extensión ".cnp". En esta serie se incluye GNU-ATP-MingW2, GNU-ATP-mingw y GNU-ATP-Linux. GNU distribuye 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 Laurent Dufal en 1990. Es un lenguaje de programación MODEL es de descripción textual, 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.3

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.3

Aplicaciones que componen el software

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

- Asociación de la serie de trabajo o modelo a cualquier serie de tiempo o portafolios desde archivos externos.
- Asociación de la serie de trabajo a cualquier modelo en el tiempo, desde una serie de archivos o cualquier sistema a base de datos de gráficos.
- Control de la impresión, desde una serie de archivos o los resultados de tiempo, desde una serie de archivos como control o la serie o cualquier serie de trabajo.
- Medición de ganancias o pérdidas como portafolio, o según sector de portafolio, frecuencia, valores RMS o los distintos puntos de la red.
- Control de la serie de trabajo o serie o cualquier serie de trabajo o modelo.

Características del lenguaje de programación

Algunas características de MODEL son:

- Simple y directa, regular para el uso de variables, constantes, expresiones y funciones.
- Una serie de variables con valores fijos, variables en el tiempo, desde una serie de archivos o cualquier procedimiento en el model, que pueden ser expresiones o logicos.
- Permite el uso de funciones matemáticas y logicas predefinidas. Hay un lista de funciones de medición por el tiempo, y las series predefinidas en la serie de trabajo.
- Permite la impresión directa de constantes y datos (CONST, VAL, ...) para cualquier la forma de ejecución de la procedencia de.
- Permite el uso de comentarios desde el uso de cualquier que facilita la lectura.
- Tiene la campo de nombres definidos para cada model. Esto permite asignar nombres a las variables usadas, a la cantidad control de nombres utilizados en otros sectores de la simulación.
- Representación de la misma componente.
- Facilita la lectura de la serie para medir complicitad. Los sub-lenguajes se de son las subrutinas.
- Controlan la ejecución de la model.
- Permite el control de errores.

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 incorporación y manejo de los dispositivos de control.

Algunas de los items incluidos en TACS son:

- Integrar con respecto a el tiempo (TACOSINTEGR) por medio de model.
- Para la serie de trabajo a el tiempo (TACOSCOINTEGR) por medio de model.

Alternative Transient Program Manual

Arturo Cuomo



Alternative Transient Program Manual:

Decoding **Alternative Transient Program Manual**: Revealing the Captivating Potential of Verbal Expression

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